



*Sixth Form  
and  
IB Diploma  
Programme  
Handbook*



DOVER COURT INTERNATIONAL SCHOOL  
SINGAPORE

A NORD ANGLIA EDUCATION SCHOOL





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## Welcome to the Sixth Form at DCIS

The International Baccalaureate (IB) was founded in 1968, and seeks to provide an international education that develops the intellectual, personal, emotional and social skills needed to live, learn and work in a rapidly changing, intercultural world. As of September 2019, there are 3,421 schools offering the International Baccalaureate Diploma Programme (IBDP), in 157 different countries worldwide.

DCIS is committed to providing a high quality, challenging, international education at all levels through a framework of high expectations and this has shaped our decision to offer the IBDP.

Through the IBDP, schools are able to develop students who:

- have excellent breadth and depth of knowledge
- flourish physically, intellectually, emotionally and ethically
- study at least two languages
- excel in traditional academic subjects
- explore the nature of knowledge through the programme's unique theory of knowledge course.

The IBDP is an accessible and rewarding programme that provides excellent preparation for university education and employment. IBDP students are valued for their high academic standards. In addition, the IB Learner Profile helps students to be critical thinkers who are open-minded, resilient and reflective and have a greater understanding of the wider world. Throughout the

programme we encourage our students to study hard and also to become involved in school and community activities through the Creativity, Activity and Service Programme.

According to UK Higher Education Admissions research the International Baccalaureate offers the best preparation for University. The Diploma programme ranks top in 14 out of 16 different factors from self-management to intercultural skills, creativity and an ability to cope with pressure. Being able to think and learn independently is the most important factor in students being ready and equipped to thrive at university.

At DCIS we have been able to provide our students with a variety of subjects to suit their interests and requirements, as well as excellent support for the core elements of the Diploma Programme. Our highly qualified and dedicated teachers are well prepared to help students achieve at the highest levels during the IBDP. We expect our students to commit themselves whole-heartedly to all aspects of school life so that DCIS Sixth Form will be an enriching and rewarding experience.



**Craig Bull**  
Head of Secondary School



**Dominic O'Shea**  
IB Coordinator

At DCIS we offer our students a wide variety of subjects to suit their interests and strengths as well as providing excellent support for the core elements of the Diploma Programme: Extended Essay, Theory of Knowledge and Creativity, Activity, Service. Our students are also well supported with information and counselling for the next steps in their education, which includes talks from local and international universities, careers fairs and guidance counselling.

Throughout the IB programme we seek to develop students' academic progress and contribute to shaping their personal development. The IB learner profile outlines the traits we strive to nurture in our students, not only in lessons, but in everything they do. DCIS students can look forward to a challenging and rewarding programme along with excellent teaching and learning.



## The two pathways for our Sixth Form students at DCIS

### Programme 1: The International Baccalaureate Diploma Programme

The IBDP is a broad but challenging programme which provides excellent preparation for university education and life in the real world. Like most pre-university courses offered by other schools, students will need to have achieved a minimum standard in order to take the Diploma.

The curriculum is modelled by a circle with six academic areas surrounding the three core requirements. Over the course of the two-year programme, students study six subjects chosen from six subject groups:

- Three subjects are studied at Higher Level (HL)
- Three subjects are studied at Standard Level (SL)
- One subject from each group is chosen PLUS Three core requirements:
  - Extended Essay (EE)
  - Theory of Knowledge (TOK)
  - Creativity, Activity, Service (CAS)

The IBDP admission requirement is at least 5 GCSEs (or their equivalent) at grades 5 - 9 (including English and Maths). For Higher Level Maths, students should achieve a grade 9/8, and for Standard Level they should get a minimum of grade 5 at GCSE. In addition to this, students will be expected to have demonstrated a large degree of organisation skills and self-motivation as, without these qualities, they are unlikely to succeed on the diploma. Students should obtain:

- For HL options, grade 6 or above at GCSE
- For SL options, grade 5 or above at GCSE

### Programme 2: The International Baccalaureate Courses

Students studying the IB Courses must choose a minimum of 4 subjects. Students with aspirations to attend university should select at least 3 of these subjects at HL.

Students will follow their courses for 2 years and will be examined in exactly the same way as IBDP students; sitting the examinations in May of the second year. Essentially, IB courses students follow exactly the same curriculum where exams and internal assessments are the same. Students are expected to also meet the requirements of Creativity, Activity and Service (CAS). They can also choose to complete the Extended Essay and Theory Of Knowledge and would receive additional credit for doing so successfully.

The IB Courses admission requirements are that students must have achieved at least 5 GCSEs (or their equivalent) at grades 5 – 9. For students wishing to attend university and/or those studying 3 HL courses, this must include English and Maths. For Higher Level Maths, students should achieve a Grade 9/8, and for Standard Level they should get a minimum of grade 5 at GCSE. In addition, the subjects they have chosen should be relatable to the GCSEs they have studied; e.g. in order to study Geography at IB, students should have studied it at GCSE. Students should obtain:

- For HL options, grade 6 or above at GCSE
- For SL options, grade 5 or above at GCSE





## Student Feedback on IBDP and Sixth Form

“ At the start, IB seemed like an extremely daunting adventure I was embarking on. One thing that made me really happy about this course was CAS. In my opinion, it is such a helpful subject which allows a student to continue things your school might not offer in the IB course. For example, the activity element of CAS allows me to stay physically fit and also explore deep-sea diving as an activity. At the same time, it has allowed me to return to the hospital I used to volunteer at and continue my service skills from there. Overall, this course might seem daunting in the start but it brings a lot of positives and at the end of the two years, it is all going to be worth it. ”

Mehr, Year 12

“ I joined DCIS in Year 12 (Sixth Form) and my time here has been absolutely amazing. My decision of joining Dover is one of the best ones I ever made. The teachers, students and staff are so welcoming that you feel like you have been in this school for years. Anyone you meet on campus is more than willing to extend a helping hand. Sixth Form also means the start of your IBDP journey. The curriculum seems very difficult and honestly it is, but once you learn how to manage your time, life becomes quite simple. In the first few weeks of IB, you will be overwhelmed by the amount and type of work you need to do, however eventually you learn to prioritise and get work done. My advice would be to keep discussing whatever you have on your mind with your teachers as they are always ready to offer suggestions from their experience. All in all, the 2 most exciting years of your life. ”

Arnav, Year 12

“ Hello, I am Maylis, a Year 12 student at DCIS. This will be my fourth year at Dover, and I am happy that the school offers the IB option as it will allow me to stay within the school with its community and teachers.

I am finding that English Literature, which I am taking at a higher level, is the subject I am most interested in. We have been studying Greek Mythology in poetry and novels, and we have looked at allusions between texts such as the Bible and poems from Carol Anne Duffy's 'The World's Wife'. The small class sizes allow us to have more in depth discussions and have everyone's ideas heard when analysing texts, which I find really interesting and helpful.

I do not know what career I want to delve into yet, but I know that I would like to pursue something within the business management or linguistic side of things in university. I am currently looking at school in the USA, UK, and France. ”

Maylis, Year 12

“ IB at DCIS has been a wonderful experience so far. We have had a wide range of subject choices, here at DCIS. Besides all the 6 subjects, we also have TOK. I really enjoy the new TOK subject which is part of the IB Diploma Programme. The subject is very open and therefore has lots of room for creativity and personal opinion as there is no right answer. Every answer is correct if it is linked to the concept, the ways of knowing, areas of knowledge and a clear judgement. I feel TOK links well to the IB Learner Profile as the 3 aims of TOK are to think critically, open minded and differently. I feel TOK is having a big impact on me as it is developing the quality of my thoughts, which would lead to development of my overall personality. ”

Ishita, Year 12

“ My genuine greetings from the Year 12 IB student group. My name is Thorin Khaw, or Geroder Koewe and I am currently the Official Student Photographer of selected DCIS events such as UN Day and Sports Day. I recently moved into the IB Diploma from IGCSE, where the current experience in the beginning days in Term 1 of Key Stage 5 have gotten off to a slow but smooth start for me, but expecting a large amount of workload that centres around not only my chosen subjects, but also the IB Diploma where Theory of Knowledge, Extended Essay and CAS are the Three Keys to success in the forthcoming two years that will lie ahead for each and every one of us. The IB Learner's Profile is a crucial component if we are to achieve the best of ourselves in not just our academics, but also our contributions in and out of school through the attributes of Inquiring, having Knowledge, be Thinkers, express Communication, have a Principle, convey Open-Mindedness, show our Care for others, Take Risks out of our comfort zone, have a structured Balance and last but not least, Reflect our choices and actions we make. ”

Thorin, Year 12

“ At Dover Court, there are plenty of opportunities available to nurture and showcase your passions as well as develop your leadership. The teachers are patient, understanding and most importantly, passionate about what they teach - they give life and meaning to it - making me enjoy the subjects so much more than I initially thought I would. Dover Court has a strong culture of inclusivity, and I feel stronger mentally, emotionally and physically because I have my friends and teachers to help and look out for me. ”

Shravana, Year 12





# IB learner profile

The aim of all IB programmes is to develop internationally minded people who, recognizing their common humanity and shared guardianship of the planet, help to create a better and more peaceful world.

As IB learners we strive to be:

## INQUIRERS

We nurture our curiosity, developing skills for inquiry and research. We know how to learn independently and with others. We learn with enthusiasm and sustain our love of learning throughout life.

## KNOWLEDGEABLE

We develop and use conceptual understanding, exploring knowledge across a range of disciplines. We engage with issues and ideas that have local and global significance.

## THINKERS

We use critical and creative thinking skills to analyse and take responsible action on complex problems. We exercise initiative in making reasoned, ethical decisions.

## COMMUNICATORS

We express ourselves confidently and creatively in more than one language and in many ways. We collaborate effectively, listening carefully to the perspectives of other individuals and groups.

## PRINCIPLED

We act with integrity and honesty, with a strong sense of fairness and justice, and with respect for the dignity and rights of people everywhere. We take responsibility for our actions and their consequences.

## OPEN-MINDED

We critically appreciate our own cultures and personal histories, as well as the values and traditions of others. We seek and evaluate a range of points of view, and we are willing to grow from the experience.

## CARING

We show empathy, compassion and respect. We have a commitment to service, and we act to make a positive difference in the lives of others and in the world around us.

## RISK-TAKERS

We approach uncertainty with forethought and determination; we work independently and cooperatively to explore new ideas and innovative strategies. We are resourceful and resilient in the face of challenges and change.

## BALANCED

We understand the importance of balancing different aspects of our lives—intellectual, physical, and emotional—to achieve well-being for ourselves and others. We recognize our interdependence with other people and with the world in which we live.

## REFLECTIVE

We thoughtfully consider the world and our own ideas and experience. We work to understand our strengths and weaknesses in order to support our learning and personal development.

The IB learner profile represents 10 attributes valued by IB World Schools. We believe these attributes, and others like them, can help individuals and groups become responsible members of local, national and global communities.





# International Baccalaureate Diploma Programme

## Standard level and higher level courses

### The Diploma Programme model

The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and in life. The DP aims to encourage students to be knowledgeable, inquiring, caring, open-minded and to develop intercultural understanding and the attitudes necessary to appreciate a range of viewpoints.

The DP provides the opportunity to develop both disciplinary and interdisciplinary knowledge that meets the rigorous standards set by institutions of higher learning around the world.

To ensure both breadth and depth of knowledge and understanding, students choose courses from the following subject groups: studies in language and literature; language acquisition; individuals and societies; sciences; mathematics; and the arts. Most subjects may be taken at either standard level (SL) or higher level (HL).

To earn the full diploma a student must take at least three subjects at HL. In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.



### The nature of HL and SL courses

It is essential for any pre university education to equip students with the depth of discipline-specific knowledge and skills that they will need for their chosen academic and career paths. However, this must be balanced with the breadth needed to develop well-rounded students who can draw connections between the different disciplines.

As such, the philosophy of the IB DP is that students should engage with a range of subjects while being able to explore specific areas of personal interest in greater depth. SL courses ensure students are exposed to a range of disciplines that they might otherwise opt out of, and HL courses allow students to spend more time with subjects they are more interested in by exploring options in addition to the SL core curriculum. In this sense, all DP courses, regardless of whether they are SL or HL, are integral to the programme.

### Curriculum and assessment

Both SL and HL courses are meant to span the two years of the DP. SL courses are recommended to have at least 150 hours of instructional time, and HL courses are recommended to have at least 240 instructional hours.

In most cases both SL and HL courses consist of the same educational aims, core syllabus and curriculum and assessment models. HL courses typically also include a range of additional elements designed to allow students to explore areas of interest within the subject in more depth. In this sense, SL courses are not watered down versions of their HL counterparts. The assessment criteria are equally demanding for both levels, and SL exams are marked and standardized with the same rigour as all IB coursework.



# International Baccalaureate Diploma Programme Subject Brief

## Creativity, activity, service

For students graduating in 2017 and after

The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and life beyond. The DP aims to encourage students to be knowledgeable, inquiring, caring and compassionate, and to develop intercultural understanding, open-mindedness and the attitudes necessary to respect and evaluate a range of viewpoints. Approaches to teaching and learning (ATL) are deliberate strategies, skills and attitudes that permeate the teaching and learning environment. In the DP, students develop skills from five ATL categories: thinking, research, social, self-management and communication.

To ensure both breadth and depth of knowledge and understanding, students must choose six courses from six distinct groups: 1) studies in language and literature; 2) language acquisition; 3) individuals and societies, 4) sciences; 5) mathematics; 6) the arts. Students may choose to replace the arts course with a second course from one of the other five groups. At least three, and not more than four, subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.

These DP subject briefs illustrate four key course components.

- I. Description and aims
- II. Programme overview



- III. Learning outcomes
- IV. Sample projects

## I. Description and aims

Creativity, activity, service (CAS) is at the heart of the DP. With its holistic approach, CAS is designed to strengthen and extend students' personal and interpersonal learning from the Primary Years Programme (PYP) and Middle Years Programme (MYP).

CAS is organized around the three strands of creativity, activity and service defined as follows.

- Creativity—exploring and extending ideas leading to an original or interpretive product or performance.
- Activity—physical exertion contributing to a healthy lifestyle.
- Service—collaborative and reciprocal engagement with the community in response to an authentic need.

CAS aims to develop students who:

- enjoy and find significance in a range of CAS experiences
- purposefully reflect upon their experiences
- identify goals, develop strategies and determine further actions for personal growth
- explore new possibilities, embrace new challenges and adapt to new roles
- actively participate in planned, sustained and collaborative CAS projects
- understand they are members of local and global communities with responsibilities towards each other and the environment.

A CAS experience is a specific event in which the student engages with one or more of the three CAS strands. It can be a single event or an extended series of events. A CAS project is a collaborative series of sequential CAS experiences lasting at least one month. Typically, a student's CAS

programme combines planned/unplanned singular and ongoing experiences. All are valuable and may lead to personal development. However, a meaningful CAS programme must be more than just a series of unplanned/singular experiences. Students must be involved in at least one CAS project during the programme.

## II. Programme overview

The CAS programme formally begins at the start of the DP and continues regularly for at least 18 months with a reasonable balance between creativity, activity and service.

A CAS experience must:

- fit within one or more of the CAS strands
- be based on a personal interest, skill, talent or opportunity for growth
- provide opportunities to develop the attributes of the IB learner profile
- not be used or included in the student's DP course requirements.

CAS students have guidance at the school level through a variety of resources including the school's CAS handbook, information sessions and meetings. In addition, students have three formal interviews with the school's CAS coordinator/adviser.

Typically, students' service experiences involve the following stages.

- Investigation, preparation and action that meets an identified need.
- Reflection on significant experiences throughout to inform problem-solving and choices.
- Demonstration allowing for sharing of what has taken place.

All CAS students are expected to maintain and complete a CAS portfolio as evidence of their engagement with CAS. The CAS portfolio is a collection of evidence that showcases CAS experiences and student reflections; it is not formally assessed.

A school's CAS programme is evaluated as part of the school's regular programme evaluation and self-study process that assesses the overall implementation of the DP.

### III. Learning outcomes

Completion of CAS is based on student achievement of the seven CAS learning outcomes. Through their CAS portfolio, students provide the school with evidence demonstrating achievement of each learning outcome. Some learning outcomes may be achieved many times, while others may be achieved less frequently. In their CAS portfolio, students provide the school with evidence of having achieved each learning outcome at least once through their CAS programme.

Learning outcome	Descriptor
<b>Identify own strengths and develop areas for growth.</b>	Students are able to see themselves as individuals with various abilities and skills, of which some are more developed than others.
<b>Demonstrate that challenges have been undertaken, developing new skills in the process.</b>	A new challenge may be an unfamiliar experience or an extension of an existing one. The newly acquired or developed skills may be shown through new experiences or through increased expertise in an established area.
<b>Demonstrate how to initiate and plan a CAS experience.</b>	Students can articulate the stages from conceiving an idea to executing a plan for individual or collaborative CAS experiences. Students may show their knowledge and awareness by building on a previous experience or by launching a new idea or process.
<b>Show commitment to, and perseverance in, CAS experiences.</b>	Students demonstrate regular involvement and active engagement in CAS.

<b>Demonstrate the skills and recognize the benefits of working collaboratively.</b>	Students are able to identify, demonstrate and critically discuss the benefits and challenges of collaboration gained through CAS experiences.
<b>Demonstrate engagement with issues of global significance.</b>	Students are able to identify and demonstrate their understanding of global issues, make responsible decisions and take appropriate action in response to the issue either locally, nationally or internationally.
<b>Recognize and consider the ethics of choices and actions.</b>	Students show awareness of the consequences of choices and actions in planning and carrying out CAS experiences.

### IV. Sample projects

- **Creativity:** A student group plans, designs and creates a mural.
- **Activity:** Students organize and participate in a sports team including training sessions and matches against other teams.
- **Service:** Students set up and conduct tutoring for people in need.
- **Service and activity:** Students plan and participate in the planting and maintenance of a garden with members of the local community.
- **Creativity, activity and service:** Students rehearse and perform a dance production for a community retirement home.

About the IB: For nearly 50 years, the IB has built a reputation for high-quality, challenging programmes of education that develop internationally minded young people who are well prepared for the challenges of life in the 21st century and are able to contribute to creating a better, more peaceful world.

For further information on the IB Diploma Programme, visit: [www.ibo.org/en/programmes/diploma-programme/](http://www.ibo.org/en/programmes/diploma-programme/).

Complete subject guides can be accessed through the IB online curriculum centre (OCC) or purchased through the IB store: <http://store.ibo.org>.

For more on how the DP prepares students for success at university, visit: [www.ibo.org/en/university-admission](http://www.ibo.org/en/university-admission) or email: [recognition@ibo.org](mailto:recognition@ibo.org).



# International Baccalaureate Diploma Programme Subject Brief

## Diploma Programme Core:

### Extended essay, including the world studies option

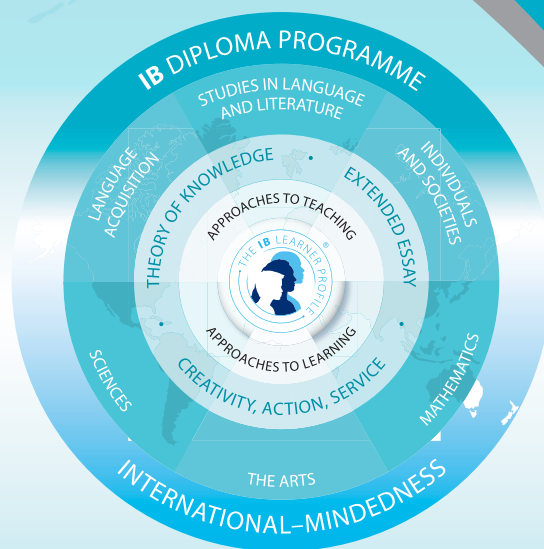
First assessment 2018



The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and life beyond. The DP aims to encourage students to be knowledgeable, inquiring, caring and compassionate, and to develop intercultural understanding, open-mindedness and the attitudes necessary to respect and evaluate a range of viewpoints. Approaches to teaching and learning (ATL) within the DP are deliberate strategies, skills and attitudes that permeate the teaching and learning environment. In the DP, students develop skills from five ATL categories: thinking, research, social, self-management and communication.

To ensure both breadth and depth of knowledge and understanding, students must choose six courses from six distinct groups:

1) studies in language and literature; 2) language acquisition; 3) individuals and societies; 4) sciences; 5) mathematics; 6) the arts. Students may choose to replace the arts course with a second course from one of the other five groups. At least three, and not more than four, subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge, and creativity, activity, service—are compulsory and central to the philosophy of the programme.



These DP subject briefs illustrate four key course components.

I. Course description and aims

II. Overview of the extended essay process

III. Assessment model

IV. Sample extended essay topics

## I. Course description and aims

The extended essay is a compulsory, externally assessed piece of independent research into a topic chosen by the student and presented as a formal piece of academic writing. The extended essay is intended to promote high-level research and writing skills, intellectual discovery and creativity while engaging students in personal research. This leads to a major piece of formally presented, structured writing of up to 4,000 words in which ideas and findings are communicated in a reasoned, coherent and appropriate manner.

Students are guided through the process of research and writing by an assigned supervisor (a teacher in the school). All students undertake three mandatory reflection sessions with their supervisor, including a short interview, or *viva voce*, following the completion of the extended essay.

Extended essay topics may be chosen from a list of approved DP subjects—normally one of the student's six chosen subjects for the IB diploma or the world studies option. World studies provides students with the opportunity to carry out an in-depth interdisciplinary study of an issue of contemporary global significance, using two IB disciplines.

The aims of the extended essay are to provide students with the opportunity to:

- engage in independent research with intellectual initiative and rigour
- develop research, thinking, self-management and communication skills
- reflect on what has been learned throughout the research and writing process.

## II. Overview of the extended essay process

### The extended essay process

#### The research process

1. Choose the approved DP subject.
2. Choose a topic.
3. Undertake some preparatory reading.
4. **Formulate a well-focused research question.**
5. Plan the research and writing process.
6. Plan a structure (outline headings) for the essay. This may change as the research develops.
7. Carry out the research.

### Writing and formal presentation

The required elements of the final work to be submitted are as follows.

- Title page
- Contents page
- Introduction
- Body of the essay
- Conclusion
- References and bibliography

The upper limit of 4,000 words includes the introduction, body, conclusion and any quotations.

### Reflection process

As part of the supervision process, students undertake three mandatory reflection sessions with their supervisor. These sessions form part of the formal assessment of the extended essay and research process. The purpose of these sessions is to provide an opportunity for students to reflect on their engagement with the research process and is intended to help students consider the effectiveness of their choices, re-examine their ideas and decide on whether changes are needed. The final reflection session is the viva voce.

The viva voce is a short interview (10–15 minutes) between the student and the supervisor, and is a mandatory conclusion to the process.

The viva voce serves as:

- a check on plagiarism and malpractice in general
- an opportunity to reflect on successes and difficulties
- an opportunity to reflect on what has been learned
- an aid to the supervisor's report.

## III. Assessment model

The extended essay, including the world studies option, is assessed against common criteria and is interpreted in ways appropriate to each subject. Students are expected to:

- provide a logical and coherent rationale for their choice of topic
- review what has already been written about the topic
- formulate a clear research question
- offer a concrete description of the methods used to investigate the question
- generate reasoned interpretations and conclusions based on their reading and independent research in order to answer the question
- reflect on what has been learned throughout the research and writing process.

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## Assessment at a glance

Assessment criteria	Description
Focus and method	The topic, the research question and the methodology are clearly stated.
Knowledge and understanding	The research relates to the subject area/discipline used to explore the research question, and knowledge and understanding is demonstrated through the use of appropriate terminology and concepts.
Critical thinking	Critical-thinking skills have been used to analyse and evaluate the research undertaken.
Presentation	The presentation follows the standard format expected for academic writing.
Engagement	The student's engagement with their research focus and the research process.

The extended essay contributes to the student's overall score for the diploma through the award of points in conjunction with theory of knowledge. A maximum of three points are awarded according to a student's combined performance in both the extended essay and theory of knowledge.

## IV. Sample extended essay topics

- What is the relationship between the length of an exhaust pipe and the frequency of the sound it emits?
- How far was the Christian Democrat victory in the Italian elections of 1948 influenced by Cold War tensions?
- How effective is Friedrich Dürrenmatt's use of colour to convey his message in the play *Der Besuch der alten Dame*?



# International Baccalaureate Diploma Programme Subject Brief

Diploma Programme core:

Theory of knowledge

First assessments 2015 – Last assessments 2021



The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and life beyond. The DP aims to encourage students to be knowledgeable, inquiring, caring and compassionate, and to develop intercultural understanding, open-mindedness and the attitudes necessary to respect and evaluate a range of viewpoints.

To ensure both breadth and depth of knowledge and understanding, students must choose at least one subject from five groups: 1) their best language, 2) additional language(s), 3) social sciences, 4) experimental sciences, and 5) mathematics. Students may choose either an arts subject from group 6, or a second subject from groups 1 to 5. At least three and not more than four subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, action, service—are compulsory and central to the philosophy of the programme.

These IB DP subject briefs illustrate four key course components.

- I. Course description and aims
- II. Curriculum model overview

- III. Assessment model
- IV. Sample questions



## I. Course description and aims

Theory of knowledge (TOK) is a course about critical thinking and inquiring into the process of knowing, rather than about learning a specific body of knowledge. It plays a special role in the DP by providing an opportunity for students to reflect on the nature of knowledge, to make connections between areas of knowledge and to become aware of their own perspectives and those of the various groups whose knowledge they share. It is a core element undertaken by all DP students, and schools are required to devote at least 100 hours of class time to the course. The overall aim of TOK is to encourage students to formulate answers to the question "how do you know?" in a variety of contexts, and to see the value of that question. This allows students to develop an enduring fascination with the richness of knowledge.

The aims of the TOK course are to:

- make connections between a critical approach to the construction of knowledge, the academic disciplines and the wider world
- develop an awareness of how individuals and communities construct knowledge and how this is critically examined
- develop an interest in the diversity and richness of cultural perspectives and an awareness of personal and ideological assumptions
- critically reflect on their own beliefs and assumptions, leading to more thoughtful, responsible and purposeful lives
- understand that knowledge brings responsibility which leads to commitment and action.

## II. Curriculum model overview

### Component

#### **Knowing about knowing**

TOK examines how we know what we claim to know, by encouraging students to analyse knowledge claims and explore knowledge questions. A knowledge claim is the assertion that "I/we know X" or "I/we know how to Y", or a statement about knowledge; a knowledge question is an open question about knowledge. The distinction between shared knowledge and personal knowledge is intended to help teachers construct their TOK course and to help students explore the nature of knowledge.

#### **Ways of knowing**

While there are arguably many ways of knowing (WOKs), TOK identifies eight specific WOKs: language, sense perception, emotion, reason, imagination, faith, intuition, and memory. Students must explore a range of ways of knowing, and it is suggested to study four of these in depth.

#### **Areas of knowledge**

Areas of knowledge are specific branches of knowledge, each of which can be seen to have a distinct nature and different methods of gaining knowledge. TOK distinguishes between eight areas of knowledge: mathematics, the natural sciences, the human sciences, the arts, history, ethics, religious knowledge systems, and indigenous knowledge systems. Students must explore a range of areas of knowledge, and it is suggested to study six of these eight.

### III. Assessment model

Having followed the TOK course, students will be expected to demonstrate the following:

- Identify and analyse the various kinds of justifications used to support knowledge claims.
- Formulate, evaluate and attempt to answer knowledge questions.
- Examine how academic disciplines/areas of knowledge generate and shape knowledge.
- Understand the roles played by ways of knowing in the construction of shared and personal knowledge.
- Explore links between knowledge claims, knowledge questions, ways of knowing and areas of knowledge.
- Demonstrate an awareness and understanding of different perspectives and be able to relate these to one's own perspective.
- Explore a real-life/contemporary situation from a TOK perspective in the presentation.

### IV. Sample prescribed titles

- Using history and at least one other area of knowledge, examine the claim that it is possible to attain knowledge despite problems of bias and selection.
- "It is a capital mistake to theorize before one has data. Insensibly one begins to twist facts to suit theories, instead of theories to suit facts" (Arthur Conan Doyle). Consider the extent to which this statement may be true in two or more areas of knowledge.
- In what ways may disagreement aid the pursuit of knowledge in the natural and human sciences?

### Assessment at a glance

Type of assessment	Format of assessment	Weighting of final grade (%)
External		
Part 1: Essay on a prescribed title	One essay on a title chosen from a list of six prescribed titles.	67
Internal		
Part 2: Presentation	One presentation to the class by an individual or a group (max of three persons); approximately 10 minutes per student. One written presentation planning document for each student.	33

TOK contributes to the overall diploma score through the award of points in conjunction with the extended essay. A maximum of three points are awarded according to a student's combined performance in both TOK and the extended essay.

About the IB: For over 40 years the IB has built a reputation for high-quality, challenging programmes of education that develop internationally minded young people who are well prepared for the challenges of life in the 21st century and able to contribute to creating a better, more peaceful world.

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# International Baccalaureate Diploma Programme Subject Brief

## Language A: literature

First assessments for SL and HL—2021

The Diploma Programme (DP) is a rigorous pre-university course of study designed for students in the 16 to 19 age range. It is a broad-based two-year course that aims to encourage students to be knowledgeable and inquiring, but also caring and compassionate. There is a strong emphasis on encouraging students to develop intercultural understanding, open-mindedness, and the attitudes necessary for them to respect and evaluate a range of points of view.

The course is presented as six academic areas enclosing a central core. Students study two modern languages (or a modern language and a classical language), a humanities or social science subject, an experimental science, mathematics and one of the creative arts. Instead of an arts subject, students can choose two subjects from another area. It is this comprehensive range of subjects that makes the Diploma Programme a demanding course of study designed to prepare students effectively for university entrance. In each of the academic areas students have flexibility in making their choices, which means they can choose subjects that particularly interest them and that they may wish to study further at university.

Normally, three subjects (and not more than four) are taken at higher level (HL), and the others are taken at standard level (SL). The IB recommends 240 teaching hours for HL subjects and 150 hours for SL. Subjects at HL are studied in greater depth and breadth than at SL.

In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.

This IB DP subject brief has three key components:

- I. Course description and aims
- II. Curriculum model overview
- III. Assessment model



## I. Course description and aims

The language A: literature aims at exploring the various manifestations of literature as a particularly powerful mode of writing across cultures and throughout history. The course aims at developing an understanding of factors that contribute to the production and reception of literature—the creativity of writers and readers, the nature of their interaction with their respective contexts and with literary tradition, the ways in which language can give rise to meaning and/or effect, and the performative and transformative potential of literary creation and response. Through close analysis of a range of literary texts in a number of literary forms and from different times and places, students will consider their own interpretations as well as the critical perspectives of others, to explore how such positions are shaped by cultural belief systems and to negotiate meanings for texts.

The aims of studies in language and literature courses are to enable students to:

- engage with a range of texts, in a variety of media and forms, from different periods, styles and cultures
- develop skills in listening, speaking, reading, writing, viewing, presenting and performing
- develop skills in interpretation, analysis and evaluation
- develop sensitivity to the formal and aesthetic qualities of texts and an appreciation of how they contribute to diverse responses and open up multiple meanings

- develop an understanding of relationships between texts and a variety of perspectives, cultural contexts, and local and global issues, and an appreciation of how they contribute to diverse responses and open up multiple meanings
- develop an understanding of the relationships between studies in language and literature and other disciplines
- communicate and collaborate in a confident and creative way
- foster a lifelong interest in and enjoyment of language and literature.

## II. Curriculum model overview

Syllabus component	Recommended teaching hours	
	SL	HL
Readers, writers and texts	50	80
Time and space	50	80
Intertextuality: connecting texts	50	80
<b>Total teaching hours</b>	<b>150</b>	<b>240</b>

### III. Assessment model

It is the intention of this course that students are able to fulfill the following assessment objectives:

1. Know, understand and interpret:
  - a range of texts, works and/or performances, and their meanings and implications
  - contexts in which texts are written and/or received
  - elements of literary, stylistic, rhetorical, visual and/or performance craft
  - features of particular text types and literary forms.
2. Analyse and evaluate:
  - ways in which the use of language creates meaning
  - uses and effects of literary, stylistic, rhetorical, visual or theatrical techniques
  - relationships among different texts
  - ways in which texts may offer perspectives on human concerns.
3. Communicate:
  - ideas in clear, logical and persuasive ways
  - in a range of styles, registers and for a variety of purposes and situations
  - (for literature and performance only) ideas, emotion, character and atmosphere through performance.

### Assessment at a glance

Type of assessment	Format of assessment	Time (hours)		Weighting of final grade (%)	
		SL	HL	SL	HL
External					
Paper 1: Guided literary analysis	Guided analysis of unseen literary passage/ passages from different text types.	1.25	2.25	35	35
Paper 2: Comparative essay	Comparative essay based on two literary works written in response to a choice of one out of four questions.	1.75	1.75	35	25
HL essay	Written coursework component: 1,200–1,500 word essay on one work studied.				20
Internal					
Individual oral	Prepared oral response on the way that one work originally written in the language studied and one work studied in translation have approached a common global issue.			30	20

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# International Baccalaureate Diploma Programme Subject Brief

## Language A: language and literature

First assessments for SL and HL—2021

The Diploma Programme (DP) is a rigorous pre-university course of study designed for students in the 16 to 19 age range. It is a broad-based two-year course that aims to encourage students to be knowledgeable and inquiring, but also caring and compassionate. There is a strong emphasis on encouraging students to develop intercultural understanding, open-mindedness, and the attitudes necessary for them to respect and evaluate a range of points of view.

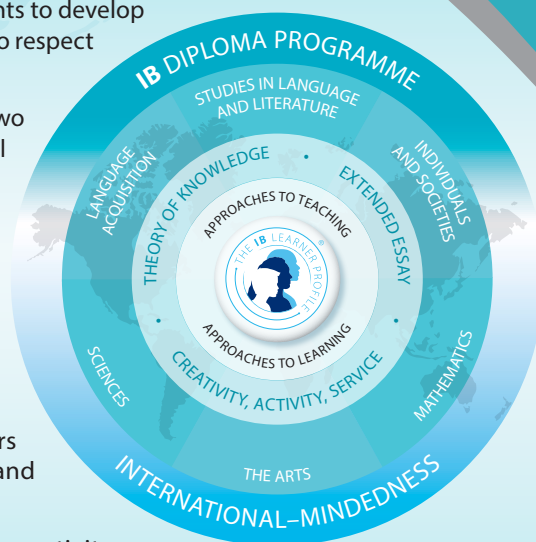
The course is presented as six academic areas enclosing a central core. Students study two modern languages (or a modern language and a classical language), a humanities or social science subject, an experimental science, mathematics and one of the creative arts. Instead of an arts subject, students can choose two subjects from another area. It is this comprehensive range of subjects that makes the Diploma Programme a demanding course of study designed to prepare students effectively for university entrance. In each of the academic areas students have flexibility in making their choices, which means they can choose subjects that particularly interest them and that they may wish to study further at university.

Normally, three subjects (and not more than four) are taken at higher level (HL), and the others are taken at standard level (SL). The IB recommends 240 teaching hours for HL subjects and 150 hours for SL. Subjects at HL are studied in greater depth and breadth than at SL.

In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.

This IB DP subject brief has three key components:

- I. Course description and aims
- II. Curriculum model overview
- III. Assessment model



## I. Course description and aims

The language A: language and literature course aims at studying the complex and dynamic nature of language and exploring both its practical and aesthetic dimensions. The course will explore the crucial role language plays in communication, reflecting experience and shaping the world, and the roles of individuals themselves as producers of language. Throughout the course, students will explore the various ways in which language choices, text types, literary forms and contextual elements all effect meaning.

Through close analysis of various text types and literary forms, students will consider their own interpretations, as well as the critical perspectives of others, to explore how such positions are shaped by cultural belief systems and to negotiate meanings for texts.

The aims of studies in language and literature courses are to enable students to:

- engage with a range of texts, in a variety of media and forms, from different periods, styles and cultures
- develop skills in listening, speaking, reading, writing, viewing, presenting and performing
- develop skills in interpretation, analysis and evaluation
- develop sensitivity to the formal and aesthetic qualities of texts and an appreciation of how they contribute to diverse responses and open up multiple meanings

- develop an understanding of relationships between texts and a variety of perspectives, cultural contexts, and local and global issues, and an appreciation of how they contribute to diverse responses and open up multiple meanings
- develop an understanding of the relationships between studies in language and literature and other disciplines
- communicate and collaborate in a confident and creative way
- foster a lifelong interest in and enjoyment of language and literature.

## II. Curriculum model overview

Syllabus component	Recommended teaching hours	
	SL	HL
Readers, writers and texts	50	80
Time and space	50	80
Intertextuality: connecting texts	50	80
<b>Total teaching hours</b>	<b>150</b>	<b>240</b>

### III. Assessment model

It is the intention of this course that students are able to fulfill the following assessment objectives:

1. Know, understand and interpret:
  - a range of texts, works and/or performances, and their meanings and implications
  - contexts in which texts are written and/or received
  - elements of literary, stylistic, rhetorical, visual and/or performance craft
  - features of particular text types and literary forms.
2. Analyse and evaluate:
  - ways in which the use of language creates meaning
  - uses and effects of literary, stylistic, rhetorical, visual or theatrical techniques
  - relationships among different texts
  - ways in which texts may offer perspectives on human concerns.
3. Communicate:
  - ideas in clear, logical and persuasive ways
  - in a range of styles, registers and for a variety of purposes and situations
  - (for literature and performance only) ideas, emotion, character and atmosphere through performance.

### Assessment at a glance

Type of assessment	Format of assessment	Time (hours)		Weighting of final grade (%)	
		SL	HL	SL	HL
<b>External</b>					
Paper 1: Guided textual analysis	Guided analysis of unseen non-literary passage/passages from different text types.	1.25	2.25	35	35
Paper 2: Comparative essay	Comparative essay based on two literary works written in response to a choice of one out of four questions.	1.75	1.75	35	25
HL essay	Written coursework component: 1,200–1,500 word essay on one literary work or a non-literary body of work studied.				20
<b>Internal</b>					
Individual oral	Prepared oral response on the way that one literary work and one non-literary body of work studied have approached a common global issue.			30	20

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# International Baccalaureate Diploma Programme Subject Brief

## Language ab initio

First assessment 2020

The Diploma Programme (DP) is a rigorous pre-university course of study designed for students in the 16 to 19 age range. It is a broad-based two-year course that aims to encourage students to be knowledgeable and inquiring, but also caring and compassionate. There is a strong emphasis on encouraging students to develop intercultural understanding, open-mindedness, and the attitudes necessary for them to respect and evaluate a range of points of view.

The course is presented as six academic areas enclosing a central core. Students study two modern languages (or a modern language and a classical language), a humanities or social science subject, an experimental science, mathematics and one of the creative arts. Instead of an arts subject, students can choose two subjects from another area. It is this comprehensive range of subjects that makes the Diploma Programme a demanding course of study designed to prepare students effectively for university entrance. In each of the academic areas students have flexibility in making their choices, which means they can choose subjects that particularly interest them and that they may wish to study further at university.

Normally, three subjects (and not more than four) are taken at higher level (HL), and the others are taken at standard level (SL). The IB recommends 240 teaching hours for HL subjects and 150 hours for SL. Subjects at HL are studied in greater depth and breadth than at SL.

In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.

This IB DP subject brief has four key components:

I. Course description and aims

II. Curriculum model overview

III. Assessment model

IV. Content outline



## I. Course description and aims

Language acquisition consists of two modern language courses—language ab initio and language B—designed to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where the language studied is spoken.

Offered at SL only, language ab initio is a language acquisition course designed for students with no previous experience in—or very little exposure to—the target language.

Language ab initio students develop their receptive, productive and interactive skills while learning to communicate in the target language in familiar and unfamiliar contexts.

Students develop the ability to communicate through the study of language, themes and texts. There are five prescribed themes: identities, experiences, human ingenuity, social organization and sharing the planet. While the themes are common to both language ab initio and language B, the language ab initio syllabus additionally prescribes four topics for each of the five themes, for a total of 20 topics that must be addressed over the two years of the course.

The following language acquisition aims are common to both language ab initio and language B.

- Develop international-mindedness through the study of languages, cultures, and ideas and issues of global significance.
- Enable students to communicate in the language they have studied in a range of contexts and for a variety of purposes.
- Encourage, through the study of texts and through social interaction, an awareness and appreciation of a variety of perspectives of people from diverse cultures.
- Develop students' understanding of the relationship between the languages and cultures with which they are familiar.
- Develop students' awareness of the importance of language in relation to other areas of knowledge.
- Provide students, through language learning and the process of inquiry, with opportunities for intellectual engagement and the development of critical- and creative-thinking skills.
- Provide students with a basis for further study, work and leisure through the use of an additional language.
- Foster curiosity, creativity and a lifelong enjoyment of language learning.

## II. Curriculum model overview

The curriculum is organized around five prescribed themes and 20 prescribed topics with which the students engage through written, audio, visual and audio-visual texts.



Students develop into successful, effective communicators by considering the conceptual understandings of context, audience, purpose, meaning and variation.

Communication is evidenced through receptive, productive and interactive skills.

### III. Assessment model

The language acquisition assessment objectives are common to both language ab initio and language B.

- Communicate clearly and effectively in a range of contexts and for a variety of purposes.
- Understand and use language appropriate to a range of interpersonal and/or intercultural contexts and audiences.
- Understand and use language to express and respond to a range of ideas with fluency and accuracy.
- Identify, organize and present ideas on a range of topics.
- Understand, analyse and reflect upon a range of written, audio, visual and audio-visual texts.

### Assessment at a glance

Language ab initio SL assessment outline		Weighting
<b>External</b> 75%	<b>Paper 1</b> (productive skills) Two written tasks—each from a choice of three  Writing—30 marks	<b>25%</b>
	<b>Paper 2</b> (receptive skills) Separate sections for listening and reading  Listening—25 marks Reading—40 marks	<b>25%</b> <b>25%</b>
<b>Internal</b> 25%	<b>Individual oral assessment</b>  30 marks	<b>25%</b>

For the individual oral internal assessment, the stimulus at language ab initio SL is a visual image that is clearly relevant to one (or more) of the themes of the course.

### IV. Content outline

Theme	Guiding principle	Prescribed topics	Possible questions
<b>Identities</b>	Explore the nature of the self and how we express who we are.	<ul style="list-style-type: none"> <li>• Personal attributes</li> <li>• Personal relationships</li> <li>• Eating and drinking</li> <li>• Physical well-being</li> </ul>	<ul style="list-style-type: none"> <li>• How do I present myself to others?</li> <li>• How do I express my identity?</li> <li>• How do I achieve a balanced and healthy lifestyle?</li> </ul>
<b>Experiences</b>	Explore and tell the stories of the events, experiences and journeys that shape our lives.	<ul style="list-style-type: none"> <li>• Daily routine</li> <li>• Leisure</li> <li>• Holidays</li> <li>• Festivals and celebrations</li> </ul>	<ul style="list-style-type: none"> <li>• How does travel broaden our horizons?</li> <li>• How would my life be different if I lived in another culture?</li> <li>• What are the challenges of being a teenager?</li> <li>• How are customs and traditions similar or different across cultures?</li> </ul>
<b>Human ingenuity</b>	Explore the ways in which human creativity and innovation affect our world.	<ul style="list-style-type: none"> <li>• Transport</li> <li>• Entertainment</li> <li>• Media</li> <li>• Technology</li> </ul>	<ul style="list-style-type: none"> <li>• How do science and technology affect my life?</li> <li>• How do I use media in my daily life?</li> <li>• What can I learn about a culture through entertainment?</li> </ul>
<b>Social organization</b>	Explore the ways in which groups of people organize themselves, or are organized, through common systems or interests.	<ul style="list-style-type: none"> <li>• Neighbourhood</li> <li>• Education</li> <li>• The workplace</li> <li>• Social issues</li> </ul>	<ul style="list-style-type: none"> <li>• What purpose do rules and regulations have in society?</li> <li>• What is my role in society?</li> <li>• What options do I have in the world of work?</li> </ul>
<b>Sharing the planet</b>	Explore the challenges and opportunities faced by individuals and communities in the modern world.	<ul style="list-style-type: none"> <li>• Climate</li> <li>• Physical geography</li> <li>• The environment</li> <li>• Global issues</li> </ul>	<ul style="list-style-type: none"> <li>• What can I do to help the environment?</li> <li>• How do my surroundings affect the way I live?</li> <li>• What can I do to make the world a better place?</li> </ul>

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# International Baccalaureate Diploma Programme Subject Brief

## Language B

First assessment 2020

The Diploma Programme (DP) is a rigorous pre-university course of study designed for students in the 16 to 19 age range. It is a broad-based two-year course that aims to encourage students to be knowledgeable and inquiring, but also caring and compassionate. There is a strong emphasis on encouraging students to develop intercultural understanding, open-mindedness, and the attitudes necessary for them to respect and evaluate a range of points of view.

The course is presented as six academic areas enclosing a central core. Students study two modern languages (or a modern language and a classical language), a humanities or social science subject, an experimental science, mathematics and one of the creative arts. Instead of an arts subject, students can choose two subjects from another area. It is this comprehensive range of subjects that makes the Diploma Programme a demanding course of study designed to prepare students effectively for university entrance. In each of the academic areas students have flexibility in making their choices, which means they can choose subjects that particularly interest them and that they may wish to study further at university.

Normally, three subjects (and not more than four) are taken at higher level (HL), and the others are taken at standard level (SL). The IB recommends 240 teaching hours for HL subjects and 150 hours for SL. Subjects at HL are studied in greater depth and breadth than at SL.

In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.

This IB DP subject brief has four key components:

I. Course description and aims

II. Curriculum model overview

III. Assessment model

IV. Content outline



## I. Course description and aims

Language acquisition consists of two modern language courses—language ab initio and language B—designed to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where the language studied is spoken.

Language B is a language acquisition course designed for students with some previous experience of the target language. Students further develop their ability to communicate through the study of language, themes and texts. There are five prescribed themes: identities, experiences, human ingenuity, social organization and sharing the planet.

Both language B SL and HL students learn to communicate in the target language in familiar and unfamiliar contexts. The distinction between language B SL and HL can be seen in the level of competency the student is expected to develop in receptive, productive and interactive skills.

At HL the study of two literary works originally written in the target language is required and students are expected to extend the range and complexity of the language they use and understand in order to communicate. Students continue to develop their knowledge of

vocabulary and grammar, as well as their conceptual understanding of how language works, in order to construct, analyse and evaluate arguments on a variety of topics relating to course content and the target language culture(s).

The following language acquisition aims are common to both language ab initio and language B.

- Develop international-mindedness through the study of languages, cultures, and ideas and issues of global significance.
- Enable students to communicate in the language they have studied in a range of contexts and for a variety of purposes.
- Encourage, through the study of texts and through social interaction, an awareness and appreciation of a variety of perspectives of people from diverse cultures.
- Develop students' understanding of the relationship between the languages and cultures with which they are familiar.
- Develop students' awareness of the importance of language in relation to other areas of knowledge.
- Provide students, through language learning and the process of inquiry, with opportunities for intellectual engagement and the development of critical- and creative-thinking skills.

- Provide students with a basis for further study, work and leisure through the use of an additional language.
- Foster curiosity, creativity and a lifelong enjoyment of language learning.

## II. Curriculum model overview

The curriculum is organized around five prescribed themes with which the students engage through written, audio, visual and audio-visual texts.

Students develop into successful, effective communicators by considering the conceptual understandings of context, audience, purpose, meaning and variation.

Communication is evidenced through receptive, productive and interactive skills.

## III. Assessment model

The language acquisition assessment objectives are common to both language ab initio and language B.

- Communicate clearly and effectively in a range of contexts and for a variety of purposes.
- Understand and use language appropriate to a range of interpersonal and/or intercultural contexts and audiences.
- Understand and use language to express and respond to a range of ideas with fluency and accuracy.
- Identify, organize and present ideas on a range of topics.
- Understand, analyse and reflect upon a range of written, audio, visual and audio-visual texts.

## Assessment at a glance

Language B SL and HL assessment outline		Weighting
External 75%	<b>Paper 1</b> (productive skills) One writing task from a choice of three  Writing—30 marks	25%
	<b>Paper 2</b> (receptive skills) Separate sections for listening and reading  Listening—25 marks Reading—40 marks	25% 25%
Internal 25%	<b>Individual oral assessment</b>  30 marks	25%

The assessment outlines for language B SL and HL are identical; it is the nature of the assessment that differs and this is what distinguishes SL assessments from those of HL.

For language B HL paper 1, the tasks set will require more complex language and structures and demand higher-order thinking skills. Additionally for HL, a higher word range has been provided in order to accommodate the more complex responses required.

For the individual oral internal assessment, the stimulus at language B SL is a visual image that is clearly relevant to one (or more) of the themes of the course. The stimulus at language B HL is an excerpt from one of the two literary works studied.

## IV. Content outline

Theme	Guiding principle	Optional recommended topics		Possible questions
<b>Identities</b>	Explore the nature of the self and what it is to be human.	<ul style="list-style-type: none"> <li>• Lifestyles</li> <li>• Health and well-being</li> <li>• Beliefs and values</li> </ul>	<ul style="list-style-type: none"> <li>• Subcultures</li> <li>• Language and identity</li> </ul>	<ul style="list-style-type: none"> <li>• What constitutes an identity?</li> <li>• How do language and culture contribute to form our identity?</li> </ul>
<b>Experiences</b>	Explore and tell the stories of the events, experiences and journeys that shape our lives.	<ul style="list-style-type: none"> <li>• Leisure activities</li> <li>• Holidays and travel</li> <li>• Life stories</li> </ul>	<ul style="list-style-type: none"> <li>• Rites of passage</li> <li>• Customs and traditions</li> <li>• Migration</li> </ul>	<ul style="list-style-type: none"> <li>• How does our past shape our present and our future?</li> <li>• How and why do different cultures mark important moments in life?</li> </ul>
<b>Human ingenuity</b>	Explore the ways in which human creativity and innovation affect our world.	<ul style="list-style-type: none"> <li>• Entertainment</li> <li>• Artistic expressions</li> <li>• Communication and media</li> </ul>	<ul style="list-style-type: none"> <li>• Technology</li> <li>• Scientific innovation</li> </ul>	<ul style="list-style-type: none"> <li>• What can we learn about a culture through its artistic expression?</li> <li>• How do the media change the way we relate to each other?</li> </ul>
<b>Social organization</b>	Explore the ways in which groups of people organize themselves, or are organized, through common systems or interests.	<ul style="list-style-type: none"> <li>• Social relationships</li> <li>• Community</li> <li>• Social engagement</li> </ul>	<ul style="list-style-type: none"> <li>• Education</li> <li>• The working world</li> <li>• Law and order</li> </ul>	<ul style="list-style-type: none"> <li>• What is the individual's role in the community?</li> <li>• What role do rules and regulations play in the formation of a society?</li> </ul>
<b>Sharing the planet</b>	Explore the challenges and opportunities faced by individuals and communities in the modern world.	<ul style="list-style-type: none"> <li>• The environment</li> <li>• Human rights</li> <li>• Peace and conflict</li> <li>• Equality</li> </ul>	<ul style="list-style-type: none"> <li>• Globalization</li> <li>• Ethics</li> <li>• Urban and rural environment</li> </ul>	<ul style="list-style-type: none"> <li>• What environmental and social issues present challenges to the world, and how can these challenges be overcome?</li> <li>• What challenges and benefits does globalization bring?</li> </ul>

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# International Baccalaureate Diploma Programme Subject Brief

## Individuals and societies:

### Business management— Standard level

First assessments 2016 – Last assessments 2022

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To ensure both breadth and depth of knowledge and understanding, students must choose at least one subject from five groups: 1) their best language, 2) additional language(s), 3) social sciences, 4) experimental sciences, and 5) mathematics. Students may choose either an arts subject from group 6, or a second subject from groups 1 to 5. At least three and not more than four subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, action, service—are compulsory and central to the philosophy of the programme.



These IB DP subject briefs illustrate four key course components.

- I. Course description and aims
- II. Curriculum model overview

- III. Assessment model
- IV. Sample questions

## I. Course description and aims

The business management course is designed to develop students' knowledge and understanding of business management theories, as well as their ability to apply a range of tools and techniques. Students learn to analyse, discuss and evaluate business activities at local, national and international levels. The course covers a range of organizations from all sectors, as well as the sociocultural and economic contexts in which those organizations operate.

The course covers the key characteristics of business organization and environment, and the business functions of human resource management, finance and accounts, marketing and operations management. Through the exploration of six underpinning concepts (change, culture, ethics, globalization, innovation and strategy), the course allows students to develop a holistic understanding of today's complex and dynamic business environment. The conceptual learning is firmly anchored in business management theories, tools and techniques and placed in the context of real world examples and case studies.

The course encourages the appreciation of ethical concerns, at both a local and global level. It aims to develop relevant and transferable skills, including the ability to: think critically; make ethically sound and well-informed decisions; appreciate the pace, nature and significance of change; think strategically; and undertake long term planning, analysis and evaluation. The course also develops subject-specific skills, such as financial analysis.

The aims of the business management course at HL and SL are to:

1. encourage a holistic view of the world of business
2. empower students to think critically and strategically about individual and organizational behaviour

3. promote the importance of exploring business issues from different cultural perspectives
4. enable the student to appreciate the nature and significance of change in a local, regional and global context
5. promote awareness of the importance of environmental, social and ethical factors in the actions of individuals and organizations
6. develop an understanding of the importance of innovation in a business environment.

## II. Curriculum model overview

Component	Recommended teaching hours
<b>Unit 1: Business organization and environment</b>	<b>40</b>
1.1 Introduction to business management	
1.2 Types of organizations	
1.3 Organizational objectives	
1.4 Stakeholders	
1.5 External environment	
1.6 Growth and evolution	
<b>Unit 2: Human resource management</b>	<b>15</b>
2.1 Functions and evolution of human resource management	
2.2 Organizational structure	
2.3 Leadership and management	
2.4 Motivation	

<b>Unit 3: Finance and accounts</b>	<b>35</b>
3.1 Sources of finance	
3.2 Costs and revenues	
3.3 Break-even analysis	
3.4 Final accounts (some HL only)	
3.5 Profitability and liquidity ratio analysis	
3.6 Cash flow	
3.7 Investment appraisal (some HL only)	
<b>Unit 4: Marketing</b>	<b>35</b>
4.1 The role of marketing	
4.2 Marketing planning (including introduction to the four Ps)	
4.3 Market research	
4.4 The four Ps (product, price, promotion, place)	
4.5 E-commerce	
<b>Unit 5: Operations management</b>	<b>10</b>
5.1 The role of operations management	
5.2 Production methods	
5.3 Location	
<b>Internal assessment</b>	<b>15</b>

### III. Assessment model

By the end of the business management SL course, students are expected to reach the following assessment objectives.

- Demonstrate knowledge and understanding of:
  - the business management tools, techniques and theories specified in the syllabus content
  - the six concepts that underpin the subject
  - real-world business problems, issues and decisions
- Demonstrate application and analysis of:
  - knowledge and skills to a variety of real-world and fictional business situations
  - business decisions by explaining the issue(s) at stake, selecting and interpreting data, and applying appropriate tools, techniques, theories and concepts
- Demonstrate synthesis and evaluation of:
  - business strategies and practices, showing evidence of critical thinking
  - business decisions, formulating recommendations
- Demonstrate a variety of appropriate skills to:
  - produce well-structured written material using business terminology
  - select and use quantitative and qualitative business tools, techniques and methods
  - select and use business material, from a range of primary and secondary sources.

### Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
External		3	75
Paper 1	Structured questions	1.25	35
Paper 2	Structured and extended response questions	1.75	40
Internal		15	25
Written commentary	Students produce a written commentary based on three to five supporting documents about a real issue or problem facing a particular organization. Maximum 1,500 words.	15	25

### IV. Sample questions

- Apply the Boston Consulting Group (BCG) matrix to B-Pharma's product portfolio.
- Examine possible strategies for Dan Electro to prevent cash flow difficulties.
- With reference to one organization that you have studied, examine what changes globalization brings about in the management of human resources.

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# International Baccalaureate Diploma Programme Subject Brief

## Individuals and societies:

### Business management—Higher level

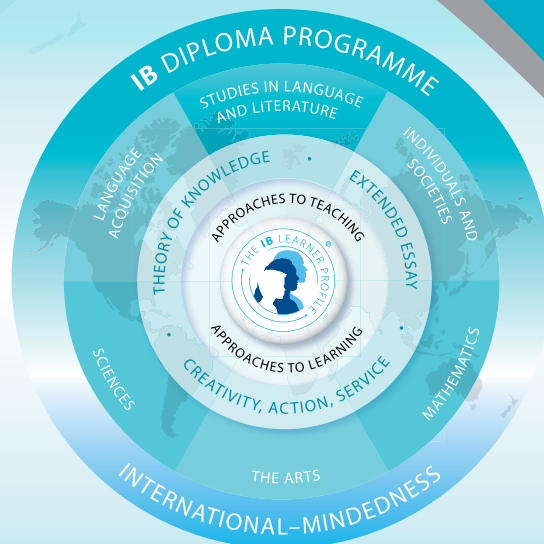
First assessments 2016 – Last assessments 2022

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These IB DP subject briefs illustrate four key course components.

- I. Course description and aims
- II. Curriculum model overview



- III. Assessment model
- IV. Sample questions

## I. Course description and aims

The business management course is designed to develop students' knowledge and understanding of business management theories, as well as their ability to apply a range of tools and techniques. Students learn to analyse, discuss and evaluate business activities at local, national and international levels. The course covers a range of organizations from all sectors, as well as the sociocultural and economic contexts in which those organizations operate.

The course covers the key characteristics of business organization and environment, and the business functions of human resource management, finance and accounts, marketing and operations management. Links between the topics are central to the course. Through the exploration of six underpinning concepts (change, culture, ethics, globalization, innovation and strategy), the course allows students to develop a holistic understanding of today's complex and dynamic business environment. The conceptual learning is firmly anchored in business management theories, tools and techniques and placed in the context of real world examples and case studies.

The course encourages the appreciation of ethical concerns at both a local and global level. It aims to develop relevant and transferable skills, including the ability to: think critically; make ethically sound and well-informed decisions; appreciate the pace, nature and significance of change; think strategically; and undertake long-term planning, analysis and evaluation. The course also develops subject-specific skills, such as financial analysis.

The aims of the business management course at HL and SL are to:

1. encourage a holistic view of the world of business
2. empower students to think critically and strategically about individual and organizational behaviour
3. promote the importance of exploring business issues from different cultural perspectives
4. enable the student to appreciate the nature and significance of change in a local, regional and global context
5. promote awareness of the importance of environmental, social and ethical factors in the actions of individuals and organizations
6. develop an understanding of the importance of innovation in a business environment.

## II. Curriculum model overview

Component	Recommended teaching hours
<b>Unit 1: Business organization and environment</b>	<b>50</b>
1.1 Introduction to business management	
1.2 Types of organizations	
1.3 Organizational objectives	
1.4 Stakeholders	
1.5 External environment	
1.6 Growth and evolution	
1.7 Organizational planning tools	



<b>Unit 2: Human resource management</b> 2.1 Functions and evolution of human resource management 2.2 Organizational structure 2.3 Leadership and management 2.4 Motivation 2.5 Organizational (corporate) culture 2.6 Industrial/employee relations	<b>30</b>
<b>Unit 3: Finance and accounts</b> 3.1 Sources of finance 3.2 Costs and revenues 3.3 Break-even analysis 3.4 Final accounts 3.5 Profitability and liquidity ratio analysis 3.6 Efficiency ratio analysis 3.7 Cash flow 3.8 Investment appraisal 3.9 Budgets	<b>50</b>
<b>Unit 4: Marketing</b> 4.1 The role of marketing 4.2 Marketing planning (including introduction to the four Ps) 4.3 Sales forecasting 4.4 Market research 4.5 The four Ps (product, price, promotion, place) 4.6 The extended marketing mix of seven Ps 4.7 International marketing 4.8 E-commerce	<b>50</b>
<b>Unit 5: Operations management</b> 5.1 The role of operations management 5.2 Production methods 5.3 Lean production and quality management 5.4 Location 5.5 Production planning 5.6 Research and development 5.7 Crisis management and contingency planning	<b>30</b>
<b>Internal assessment</b>	<b>30</b>

### III. Assessment model

By the end of the business management HL course, students are expected to reach the following assessment objectives.

- Demonstrate knowledge and understanding of:
  - the business management tools, techniques and theories specified in the syllabus content
  - the six concepts that underpin the subject
  - real-world business problems, issues and decisions
  - the HL extension topics.

- Demonstrate application and analysis of:
  - knowledge and skills to a variety of real-world and fictional business situations
  - business decisions by explaining the issue(s) at stake, selecting and interpreting data, and applying appropriate tools, techniques, theories and concepts
  - the HL extension topics.
- Demonstrate synthesis and evaluation of:
  - business strategies and practices, showing evidence of critical thinking
  - business decisions, formulating recommendations
  - the HL extension topics.
- Demonstrate a variety of appropriate skills to:
  - produce well-structured written material using business terminology
  - select and use quantitative and qualitative business tools, techniques and methods
  - select and use business material, from a range of primary and secondary sources.

### Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
External		4.5	75
Paper 1	Structured and extended response questions	2.25	35
Paper 2	Structured and extended response questions	2.25	40
Internal		30	25
Research project	Students research and report on an issue facing an organization or a decision to be made by an organization (or several organizations). Maximum 2,000 words.	30	25

### IV. Sample questions

- Analyse the appropriateness of a cost-plus pricing strategy for B-Pharma's drugs.
- Evaluate the effectiveness of the democratic leadership style of the partners at Hands.
- With reference to one or two organization(s) that you have studied, discuss how marketing strategies may differ in two cultures that you are familiar with.

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# International Baccalaureate Diploma Programme Subject Brief

## Individuals and societies: Economics—standard level

First assessments 2013—last assessments 2023

The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and life beyond. The DP aims to encourage students to be knowledgeable, inquiring, caring and compassionate, and to develop intercultural understanding, open-mindedness and the attitudes necessary to respect and evaluate a range of viewpoints. Approaches to teaching and learning (ATL) are deliberate strategies, skills and attitudes that permeate the teaching and learning environment. In the DP, students develop skills from five ATL categories: thinking, research, social, self-management and communication.

To ensure both breadth and depth of knowledge and understanding, students must choose six courses from six distinct groups: 1) studies in language and literature; 2) language acquisition; 3) individuals and societies; 4) sciences; 5) mathematics; 6) the arts. Students may choose to replace the arts course with a second course from one of the other five groups. At least three, and not more than four, subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.



These DP subject briefs illustrate four key course components.

- I. Course description and aims
- II. Curriculum model overview

- III. Assessment model
- IV. Sample questions

### I. Course description and aims

Economics is a dynamic social science. The study of economics is essentially about dealing with scarcity, resource allocation and the methods and processes by which choices are made in the satisfaction of human wants. As a social science, economics uses scientific methodologies that include quantitative and qualitative elements.

The DP economics course emphasizes the economic theories of microeconomics, which deal with economic variables affecting individuals, firms and markets, and the economic theories of macroeconomics, which deal with economic variables affecting countries, governments and societies. These economic theories are not studied in a vacuum—rather, they are to be applied to real-world issues. Prominent among these issues are fluctuations in economic activity, international trade, economic development and environmental sustainability.

The economics course encourages students to develop international perspectives, fosters a concern for global issues and raises students' awareness of their own responsibilities at a local, national and international level. Teachers explicitly teach thinking and research skills such as comprehension, text analysis, transfer, and use of primary sources.

The aims of the DP **economics** course are to enable students to:

- develop an understanding of microeconomic and macroeconomic theories and concepts and their real-world application
- develop an appreciation of the impact on individuals and societies of economic interactions between nations
- develop an awareness of development issues facing nations as they undergo the process of change.

### II. Curriculum model overview

Component	Recommended teaching hours
<b>Section 1: Microeconomics</b> 1.1 Competitive markets: demand and supply 1.2 Elasticity 1.3 Government intervention 1.4 Market failure	<b>35</b>
<b>Section 2: Macroeconomics</b> 2.1. The level of overall economic activity 2.2. Aggregate demand and aggregate supply 2.3. Macroeconomic objectives 2.4. Fiscal policy 2.5. Monetary policy 2.6. Supply-side policies	<b>40</b>
<b>Section 3: International economics</b> 3.1. International trade 3.2. Exchange rates 3.3. The balance of payments 3.4. Economic integration	<b>25</b>

<b>Section 4: Development economics</b>	<b>30</b>
4.1. Economic development	
4.2. Measuring development	
4.3. The role of domestic factors	
4.4. The role of international trade	
4.5. The role of foreign direct investment (FDI)	
4.6. The roles of foreign aid and multilateral development assistance	
4.7. The role of international debt	
4.8. The balance between markets and intervention	
<b>Internal assessment</b>	<b>20</b>
Portfolio of three commentaries	

### III. Assessment model

There are four assessment objectives for the DP economics course. Having followed the course at standard level (SL), students will be expected to meet the following objectives.

#### Assessment objective 1: Knowledge and understanding

- Demonstrate knowledge and understanding of the common SL/HL syllabus.
- Demonstrate knowledge and understanding of current economic issues and data.

#### Assessment objective 2: Application and analysis

- Apply economic concepts and theories to real-world situations.
- Identify and interpret economic data.
- Demonstrate the extent to which economic information is used effectively in particular contexts.

#### Assessment objective 3: Synthesis and evaluation

- Examine economic concepts and theories.
- Use economic concepts and examples to construct and present an argument.
- Discuss and evaluate economic information and theories.

#### Assessment objective 4: Selection, use and application of appropriate skills and techniques

- Produce well-structured written material, using appropriate economic terminology, within specified time limits.
- Use correctly labelled diagrams to help explain economic concepts and theories.
- Select, interpret and analyse appropriate extracts from the news media.
- Interpret appropriate data sets.

### Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
External		3	80
Paper 1	Extended response paper on microeconomics and macroeconomics	1.5	40
Paper 2	Data response paper on international and development economics	1.5	40
Internal			
Portfolio	Three commentaries based on different sections of the syllabus and on published extracts from the news media.	20	20

### IV. Sample questions

- Distinguish between structural unemployment and cyclical (demand-deficient) unemployment. Discuss policies that a government might use to reduce the levels of structural unemployment and cyclical (demand-deficient) unemployment. (Paper 1)
- Using an appropriate diagram, analyse the effect of “foreign buying of shares in South African companies” on the value of the rand. (Paper 2)

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# International Baccalaureate Diploma Programme Subject Brief

## Individuals and societies: Economics— higher level

First assessments 2013—last assessments 2019

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To ensure both breadth and depth of knowledge and understanding, students must choose six courses from six distinct groups: 1) studies in language and literature; 2) language acquisition; 3) individuals and societies; 4) sciences; 5) mathematics; 6) the arts. Students may choose to replace the arts course with a second course from one of the other five groups. At least three, and not more than four, subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.



These DP subject briefs illustrate four key course components.

- I. Course description and aims
- II. Curriculum model overview

- III. Assessment model
- IV. Sample questions

### I. Course description and aims

Economics is a dynamic social science. The study of economics is essentially about dealing with scarcity, resource allocation and the methods and processes by which choices are made in the satisfaction of human wants. As a social science, economics uses scientific methodologies that include quantitative and qualitative elements.

The DP economics course emphasizes the economic theories of microeconomics, which deal with economic variables affecting individuals, firms and markets, and the economic theories of macroeconomics, which deal with economic variables affecting countries, governments and societies. These economic theories are not studied in a vacuum—rather, they are to be applied to real-world issues. Prominent among these issues are fluctuations in economic activity, international trade, economic development and environmental sustainability.

The economics course encourages students to develop international perspectives, fosters a concern for global issues and raises students' awareness of their own responsibilities at a local, national and international level. Teachers explicitly teach thinking and research skills such as comprehension, text analysis, transfer, and use of primary sources.

The aims of the DP economics course are to enable students to:

- develop an understanding of microeconomic and macroeconomic theories and concepts and their real-world application
- develop an appreciation of the impact on individuals and societies of economic interactions between nations
- develop an awareness of development issues facing nations as they undergo the process of change

### II. Curriculum model overview

Component	Recommended teaching hours
<b>Section 1: Microeconomics</b> 1.1 Competitive markets: demand and supply 1.2 Elasticity 1.3 Government intervention 1.4 Market failure 1.5 Theory of the firm and market structures	<b>95</b>
<b>Section 2: Macroeconomics</b> 2.1 The level of overall economic activity 2.2 Aggregate demand and aggregate supply 2.3 Macroeconomic objectives 2.4 Fiscal policy 2.5 Monetary policy 2.6 Supply-side policies	<b>50</b>
<b>Section 3: International economics</b> 3.1 International trade 3.2 Exchange rates 3.3 The balance of payments 3.4 Economic integration 3.5 Terms of trade	<b>45</b>

<b>Section 4: Development economics</b>	<b>30</b>
4.1. Economic development	
4.2. Measuring development	
4.3. The role of domestic factors	
4.4. The role of international trade	
4.5. The role of foreign direct investment (FDI)	
4.6. The roles of foreign aid and multilateral development assistance	
4.7. The role of international debt	
4.8. The balance between markets and intervention	
<b>Internal assessment</b>	<b>20</b>
Portfolio of three commentaries	

### III. Assessment model

There are four assessment objectives for the DP economics course. Having followed the course at higher level (HL), students will be expected to meet the following objectives.

#### Assessment objective 1: Knowledge and understanding

- Demonstrate knowledge and understanding of the common SL/HL syllabus.
- Demonstrate knowledge and understanding of current economic issues and data.
- Demonstrate knowledge and understanding of the HL extension topics.

#### Assessment objective 2: Application and analysis

- Apply economic concepts and theories to real-world situations.
- Identify and interpret economic data.
- Demonstrate the extent to which economic information is used effectively in particular contexts.
- Demonstrate application and analysis of the extension topics.

#### Assessment objective 3: Synthesis and evaluation

- Examine economic concepts and theories.
- Use economic concepts and examples to construct and present an argument.
- Discuss and evaluate economic information and theories.
- Demonstrate economic synthesis and evaluation of the extension topics.

#### Assessment objective 4: Selection, use and application of appropriate skills and techniques

- Produce well-structured written material, using appropriate economic terminology, within specified time limits.
- Use correctly labelled diagrams to help explain economic concepts and theories.
- Select, interpret and analyse appropriate extracts from the news media.
- Interpret appropriate data sets.
- Use quantitative techniques to identify, explain and analyse economic relationships

### Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
External		4	80
Paper 1	Extended response paper on microeconomics and macroeconomics	1.5	30
Paper 2	Data response paper on international and development economics	1.5	30
Paper 3	HL extension paper on all syllabus content	1	20
Internal			
Portfolio	Three commentaries based on different sections of the syllabus and on published extracts from the news media.	20	20

### IV. Sample questions

#### Paper 1

- Explain why firms in monopolistic competition can make economic profit in the short run only.
- Compare and contrast the market structures of monopoly and monopolistic competition.

#### Paper 2

- State two reasons why a multinational corporation (MNC) may wish to invest in an economically less developed country (LDC).

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# International Baccalaureate Diploma Programme Subject Brief

## Individuals and societies: Geography

First assessments 2019



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To ensure both breadth and depth of knowledge and understanding, students must choose at least one subject from five groups: 1) their best language, 2) additional language(s), 3) social sciences, 4) sciences, and 5) mathematics. Students may choose either an arts subject from group 6, or a second subject from groups 1 to 5. At least three and not more than four subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.

These IB DP subject briefs illustrate the following key course components.

- I. Course description and aims
- II. Curriculum model overview

- III. Assessment model
- IV. Sample questions



## I. Course description and aims

Geography is a dynamic subject firmly grounded in the real world, and focuses on the interactions between individuals, societies and physical processes in both time and space. It seeks to identify trends and patterns in these interactions. It also investigates the way in which people adapt and respond to change, and evaluates actual and possible management strategies associated with such change. Geography describes and helps to explain the similarities and differences between different places, on a variety of scales and from different perspectives.

Geography as a subject is distinctive in its spatial dimension and occupies a middle ground between social or human sciences and natural sciences. The course integrates physical, environmental and human geography, and students acquire elements of both socio-economic and scientific methodologies. Geography takes advantage of its position to examine relevant concepts and ideas from a wide variety of disciplines, helping students develop life skills and have an appreciation of, and a respect for, alternative approaches, viewpoints and ideas.

Students at both SL and HL are presented with a common core and optional geographic themes. HL students also study the HL core extension. Although the skills and activity of studying geography are common to all students, HL students are required to acquire a further body of knowledge, to demonstrate critical evaluation and to further synthesize the concepts in the HL extension.

The aims of the geography course at SL and HL are to enable students to:

- develop an understanding of the dynamic interrelationships between people, places, spaces and the environment at different scales
- develop a critical awareness and consider complexity thinking in the context of the nexus of geographic issues, including:

- acquiring an in-depth understanding of how geographic issues, or wicked problems, have been shaped by powerful human and physical processes
- synthesizing diverse geographic knowledge in order to form viewpoints about how these issues could be resolved.
- understand and evaluate the need for planning and sustainable development through the management of resources at varying scales.

## II. Curriculum model overview

Syllabus component	Teaching hours	
	SL	HL
<b>Geographic themes—seven options</b> <b>SL—two options; HL— three options</b> <ul style="list-style-type: none"> <li>• Freshwater</li> <li>• Oceans and coastal margins</li> <li>• Extreme environments</li> <li>• Geophysical hazards</li> <li>• Leisure, tourism and sport</li> <li>• Food and health</li> <li>• Urban environments</li> </ul>	60	90
<b>SL and HL core</b> <b>Geographic perspectives—global change</b> <ul style="list-style-type: none"> <li>• Population distribution—changing population</li> <li>• Global climate—vulnerability and resilience</li> <li>• Global resource consumption and security</li> </ul>	70	70



<b>HL only</b> <b>Geographic perspectives—global interactions</b> • Power, places and networks • Human development and diversity • Global risks and resilience		60
<b>Internal assessment</b> <b>SL and HL Fieldwork</b>  Fieldwork, leading to one written report based on a fieldwork question, information collection and analysis with evaluation	20	20
<b>Total teaching hours</b>	150	240

## Assessment at a glance

Type of assessment	Format of assessment	Time (hours)		Weighting of final grade (%)	
		SL	HL	SL	HL
External		2.75	4.5	75	80
Paper 1	Each option has a structured question and one extended answer question from a choice of two.	1.5	2.25	35	35
Paper 2	Three structured questions, based on each SL/HL core unit. Infographic or visual stimulus, with structured questions. One extended answer question from a choice of two.	1.25	1.25	40	25
Paper 3	Choice of three extended answer questions, with two parts, based on each HL core extension unit.		1		20
Internal		20	20	25	20
Fieldwork	One written report based on a fieldwork question from any suitable syllabus topic, information collection and analysis with evaluation.	20	20	25	20

## III. Assessment model

There are four assessment objectives (AOs) for the SL and HL geography course. Having followed the course at SL or HL, students will be expected to do the following:

### 1. Demonstrate knowledge and understanding of specified content

- between areas of film focus and film elements employed by
- the core theme—global change
- two optional themes at SL and three optional themes at HL
- at HL, the HL extension—global interactions
- in internal assessment, a specific geographic research topic.

### 2. Demonstrate application and analysis of knowledge and understanding

- apply and analyse geographic concepts and theories
- identify and interpret geographic patterns and processes in unfamiliar information, data and cartographic material
- demonstrate the extent to which theories and concepts are recognized and understood in particular contexts.

### 3. Demonstrate synthesis and evaluation

- examine and evaluate geographic concepts, theories and perceptions
- use geographic concepts and examples to formulate and present an argument
- evaluate materials using methodology appropriate for geographic fieldwork
- at HL only, demonstrate synthesis and evaluation of the HL extension—global interactions.

### 4. Select, use and apply a variety of appropriate skills and techniques

- select, use and apply:
  - prescribed geographic skills in appropriate contexts
  - techniques and skills appropriate to a geographic research question.
- produce well-structured written material, using appropriate terminology.

## IV. Sample questions

- Examine the role of plate margin type in determining the severity of volcanic hazards.
- Evaluate the success of attempts to predict tectonic hazard event and their possible impacts.
- Evaluate the role of agribusiness and new technologies in increasing world food supply.
- Examine the relationship between food security and health.
- Using examples, analyse how technological developments can threaten the security of states.
- To what extent does a global culture exist?

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# International Baccalaureate Diploma Programme Subject Brief

## Individuals and societies: History—standard level

First assessments 2017—last assessments 2025

The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and life beyond. The DP aims to encourage students to be knowledgeable, inquiring, caring and compassionate, and to develop intercultural understanding, open-mindedness and the attitudes necessary to respect and evaluate a range of viewpoints. Approaches to teaching and learning (ATL) are deliberate strategies, skills and attitudes that permeate the teaching and learning environment. In the DP, students develop skills from five ATL categories: thinking, research, social, self-management and communication.

To ensure both breadth and depth of knowledge and understanding, students must choose six courses from six distinct groups: 1) studies in language and literature; 2) language acquisition; 3) individuals and societies; 4) sciences; 5) mathematics; 6) the arts. Students may choose to replace the arts course with a second course from one of the other five groups. At least three, and not more than four, subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.

These DP subject briefs illustrate four key course components.

- I. Course description and aims
- II. Curriculum model overview



- III. Assessment model
- IV. Sample questions

### I. Course description and aims

The DP history course is a world history course based on a comparative and multi-perspective approach to history. It involves the study of a variety of types of history, including political, economic, social and cultural, and provides a balance of structure and flexibility.

The course emphasizes the importance of encouraging students to think historically and to develop historical skills as well as gaining factual knowledge. It puts a premium on developing the skills of critical thinking, and on developing an understanding of multiple interpretations of history. In this way, the course involves a challenging and demanding critical exploration of the past. Teachers explicitly teach thinking and research skills such as comprehension, text analysis, transfer, and use of primary sources.

There are six key concepts that have particular prominence throughout the DP history course: change, continuity, causation, consequence, significance and perspectives.

The aims of the DP history course are to enable students to:

- develop an understanding of, and continuing interest in, the past
- encourage students to engage with multiple perspectives and to appreciate the complex nature of historical concepts, issues, events and developments
- promote international-mindedness through the study of history from more than one region of the world

- develop an understanding of history as a discipline and to develop historical consciousness including a sense of chronology and context, and an understanding of different historical perspectives
- develop key historical skills, including engaging effectively with sources
- increase students' understanding of themselves and of contemporary society by encouraging reflection on the past.

### II. Curriculum model overview

Component	Recommended teaching hours
<b>Prescribed subjects</b> <b>One of the following, using two case studies, each taken from a different region of the world:</b> <ol style="list-style-type: none"> <li>1. Military leaders</li> <li>2. Conquest and its impact</li> <li>3. The move to global war</li> <li>4. Rights and protest</li> <li>5. Conflict and intervention</li> </ol>	<b>40</b>

<b>World history topics</b> <b>Two of the following, using topic examples from more than one region of the world:</b> <ol style="list-style-type: none"> <li>Society and economy (750–1400)</li> <li>Causes and effects of medieval wars (750–1500)</li> <li>Dynasties and rulers (750–1500)</li> <li>Societies in transition (1400–1700)</li> <li>Early Modern states (1450–1789)</li> <li>Causes and effects of Early Modern wars (1500–1750)</li> <li>Origins, development and impact of industrialization (1750–2005)</li> <li>Independence movements (1800–2000)</li> <li>Evolution and development of democratic states (1848–2000)</li> <li>Authoritarian states (20th century)</li> <li>Causes and effects of 20th-century wars</li> <li>The Cold War: Superpower tensions and rivalries (20th century)</li> </ol>	<b>90</b>
<b>Internal assessment</b> Historical investigation	<b>20</b>

#### Assessment objective 4: Use and application of appropriate skills

- Structure and develop focused essays that respond effectively to the demands of a question.
- Reflect on the methods used by, and challenges facing, the historian.
- Formulate an appropriate, focused question to guide a historical inquiry.
- Demonstrate evidence of research skills, organization, reference and selection of appropriate sources.

#### Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
External		2.5	75
Paper 1	Source-based paper based on the five prescribed subjects	1	30
Paper 2	Essay paper based on the 12 world history topics	1.5	45
Internal			
Historical investigation	A historical investigation into a topic of the student's choice.	20	25

### III. Assessment model

There are four assessment objectives for the DP history course. Having followed the course at standard level (SL), students will be expected to meet the following objectives.

#### Assessment objective 1: Knowledge and understanding

- Demonstrate detailed, relevant and accurate historical knowledge.
- Demonstrate understanding of historical concepts and context.
- Demonstrate understanding of historical sources.

#### Assessment objective 2: Application and analysis

- Formulate clear and coherent arguments.
- Use relevant historical knowledge to effectively support analysis.
- Analyse and interpret a variety of sources.

#### Assessment objective 3: Synthesis and evaluation

- Integrate evidence and analysis to produce a coherent response.
- Evaluate different perspectives on historical issues and events, and integrate this evaluation effectively into a response.
- Evaluate sources as historical evidence, recognizing their value and limitations.
- Synthesize information from a selection of relevant sources.

### IV. Sample questions

Paper 2 (HL and SL)

- Examine the impact of industrialization on standards of living and working conditions in one country.
- Compare and contrast the impact on women of the policies of two authoritarian states, each chosen from a different region.
- Compare and contrast the role of technology in determining the outcome of two 20th-century wars.
- Examine the impact of the US policy of containment on superpower relations between 1947 and 1964.

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# International Baccalaureate Diploma Programme Subject Brief

## Individuals and societies: History—higher level

First assessments 2017—last assessments 2025

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To ensure both breadth and depth of knowledge and understanding, students must choose six courses from six distinct groups: 1) studies in language and literature; 2) language acquisition; 3) individuals and societies; 4) sciences; 5) mathematics; 6) the arts. Students may choose to replace the arts course with a second course from one of the other five groups. At least three, and not more than four, subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.



These DP subject briefs illustrate four key course components.

- I. Course description and aims
- II. Curriculum model overview

- III. Assessment model
- IV. Sample questions

### I. Course description and aims

The DP history course is a world history course based on a comparative and multi-perspective approach to history. It involves the study of a variety of types of history, including political, economic, social and cultural, and provides a balance of structure and flexibility.

The course emphasizes the importance of encouraging students to think historically and to develop historical skills as well as gaining factual knowledge. It puts a premium on developing the skills of critical thinking, and on developing an understanding of multiple interpretations of history. In this way, the course involves a challenging and demanding critical exploration of the past. Teachers explicitly teach thinking and research skills such as comprehension, text analysis, transfer, and use of primary sources.

There are six key concepts that have particular prominence throughout the DP history course: change, continuity, causation, consequence, significance and perspectives.

The aims of the DP history course are to enable students to:

- develop an understanding of, and continuing interest in, the past
- encourage students to engage with multiple perspectives and to appreciate the complex nature of historical concepts, issues, events and developments
- promote international-mindedness through the study of history from more than one region of the world

- develop an understanding of history as a discipline and to develop historical consciousness including a sense of chronology and context, and an understanding of different historical perspectives
- develop key historical skills, including engaging effectively with sources
- increase students' understanding of themselves and of contemporary society by encouraging reflection on the past.

### II. Curriculum model overview

Component	Recommended teaching hours
<b>Prescribed subjects</b> <b>One of the following, using two case studies, each taken from a different region of the world:</b> <ol style="list-style-type: none"> <li>1. Military leaders</li> <li>2. Conquest and its impact</li> <li>3. The move to global war</li> <li>4. Rights and protest</li> <li>5. Conflict and intervention</li> </ol>	<b>40</b>

<b>World history topics</b> <b>Two of the following, using topic examples from more than one region of the world:</b> <ol style="list-style-type: none"> <li>1. Society and economy (750–1400)</li> <li>2. Causes and effects of medieval wars (750–1500)</li> <li>3. Dynasties and rulers (750–1500)</li> <li>4. Societies in transition (1400–1700)</li> <li>5. Early Modern states (1450–1789)</li> <li>6. Causes and effects of Early Modern wars (1500–1750)</li> <li>7. Origins, development and impact of industrialization (1750–2005)</li> <li>8. Independence movements (1800–2000)</li> <li>9. Evolution and development of democratic states (1848–2000)</li> <li>10. Authoritarian states (20th century)</li> <li>11. Causes and effects of 20th-century wars</li> <li>12. The Cold War: Superpower tensions and rivalries (20th century)</li> </ol>	<b>90</b>
<b>HL options: Depth studies</b> <b>One of the following:</b> <ol style="list-style-type: none"> <li>1. History of Africa and the Middle East</li> <li>2. History of the Americas</li> <li>3. History of Asia and Oceania</li> <li>4. History of Europe</li> </ol>	<b>90</b>
<b>Internal assessment</b> Historical investigation	<b>20</b>

#### Assessment objective 4: Use and application of appropriate skills

- Structure and develop focused essays that respond effectively to the demands of a question.
- Reflect on the methods used by, and challenges facing, the historian.
- Formulate an appropriate, focused question to guide a historical inquiry.
- Demonstrate evidence of research skills, organization, reference and selection of appropriate sources.

#### Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
External		5	80
Paper 1	Source-based paper based on the five prescribed subjects	1	20
Paper 2	Essay paper based on the 12 world history topics	1.5	25
Paper 3	Essay paper based on one of the four regional options	2.5	35
Internal			
Historical investigation	A historical investigation into a topic of the student's choice.	20	20

### III. Assessment model

There are four assessment objectives for the DP history course. Having followed the course at higher level (HL), students will be expected to meet the following objectives.

#### Assessment objective 1: Knowledge and understanding

- Demonstrate detailed, relevant and accurate historical knowledge.
- Demonstrate understanding of historical concepts and context.
- Demonstrate understanding of historical sources.

#### Assessment objective 2: Application and analysis

- Formulate clear and coherent arguments.
- Use relevant historical knowledge to effectively support analysis.
- Analyse and interpret a variety of sources.

#### Assessment objective 3: Synthesis and evaluation

- Integrate evidence and analysis to produce a coherent response.
- Evaluate different perspectives on historical issues and events, and integrate this evaluation effectively into a response.
- Evaluate sources as historical evidence, recognizing their value and limitations.
- Synthesize information from a selection of relevant sources.

### IV. Sample questions

Paper 1

When presented with five sources related to the enforcements of the provisions of the treaties, disarmament and London Naval Conference (1930), students will:

- explain the significance of the Conference
- compare and contrast the views of the Conference presented in different sources
- assess the value and limitations of sources
- use the sources and their own knowledge to discuss the extent to which they agree with the view that the London Naval Conference was unsuccessful.

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# International Baccalaureate Diploma Programme Subject Brief

## Individuals and societies:

### Information technology in a global society – Standard level

First assessments 2012 – Last assessments 2019

The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and life beyond. The DP aims to encourage students to be knowledgeable, inquiring, caring and compassionate, and to develop intercultural understanding, open-mindedness and the attitudes necessary to respect and evaluate a range of viewpoints.

To ensure both breadth and depth of knowledge and understanding, students must choose at least one subject from five groups: 1) their best language, 2) additional language(s), 3) social sciences, 4) experimental sciences, and 5) mathematics. Students may choose either an arts subject from group 6, or a second subject from groups 1 to 5. At least three and not more than four subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, action, service—are compulsory and central to the philosophy of the programme.

These IB DP subject briefs illustrate four key course components.

- I. Course description and aims
- II. Curriculum model overview

- III. Assessment model
- IV. Sample questions



## I. Course description and aims

The IB DP information technology in a global society (ITGS) course is the study and evaluation of the impacts of information technology (IT) on individuals and society. It explores the advantages and disadvantages of the access and use of digitized information at the local and global level. ITGS provides a framework for the student to make informed judgments and decisions about the use of IT within social contexts.

The aims of the ITGS standard level courses are to:

- enable the student to evaluate social and ethical considerations arising from the widespread use of IT by individuals, families, communities, organizations and societies at the local and global level
- develop the student's understanding of the capabilities of current and emerging IT systems and to evaluate their impact on a range of stakeholders
- enable students to apply their knowledge of existing IT systems to various scenarios and to make informed judgments about the effects of IT developments on them
- encourage students to use their knowledge of IT systems and practical IT skills to justify IT solutions for a specified client or end-user.

## II. Curriculum model overview

Component	Recommended teaching hours
<b>Strand 1: Social and ethical significance</b> <ul style="list-style-type: none"> <li>• Reliability and integrity</li> <li>• Security</li> <li>• Privacy and anonymity</li> <li>• Intellectual property</li> <li>• Authenticity</li> <li>• The digital divide and equality of access</li> <li>• Surveillance</li> <li>• Globalization and cultural diversity</li> <li>• Policies</li> <li>• Standards and protocols</li> <li>• People and machines</li> <li>• Digital citizenship</li> </ul>	40
<b>Strand 2: Application to specified scenarios</b> <ul style="list-style-type: none"> <li>• Business and employment</li> <li>• Education and training</li> <li>• Environment</li> <li>• Health</li> <li>• Home and leisure</li> <li>• Politics and government</li> </ul>	40

<b>Strand 3: IT systems</b> <ul style="list-style-type: none"> <li>• Hardware</li> <li>• Software</li> <li>• Networks</li> <li>• Internet</li> <li>• Personal and public communications</li> <li>• Multimedia/digital media</li> <li>• Databases</li> <li>• Spreadsheets, modelling and simulations</li> <li>• Introduction to project management</li> </ul>	40
<b>The project (practical application of IT skills)</b> The application of skills and knowledge to develop an original IT product for a specified client.	30

## Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
External		3	70
Paper 1	Three structured responses	1.75	40
Paper 2	Written response to previously unseen article	1.25	30
Internal		30	30
Written report	Development of an original IT product for a specified client		

### III. Assessment model

Having followed the ITGS standard level course, students will be expected to demonstrate the following:

Knowledge and understanding of specified content

- Demonstrate an awareness of IT applications and developments in specified scenarios
- Demonstrate an awareness of the social and ethical significance of specified IT applications and developments
- Demonstrate technical knowledge of ITGS terminology, concepts and tools
- Demonstrate technical knowledge of IT systems

Application and analysis

- Explain the impacts of IT applications and developments in specified scenarios
- Analyse the social and ethical significance of specified IT applications and developments
- Transfer IT knowledge and make connections between specific scenarios

Synthesis and evaluation

- Evaluate local and global impacts of specified IT developments through individually researched studies
- Evaluate a solution involving IT to a specified problem using knowledge of IT systems
- Discuss the social and ethical implications of specified IT policies and developments

Use of ITGS skills

- Demonstrate evidence of project management in the development of a well-organized product to resolve a specific issue
- Use IT tools and the product development life cycle (PDLC) to create an original product in consultation with a client
- Demonstrate evidence of the use of appropriate techniques to develop an original IT product.

### IV. Sample questions

Questions based on stimulus material

- Describe the relationship between the server and a client in a network.
- A company is based at various geographical locations. The senior managing team is considering the use of web-based P2P networking in order to make business-related files available to its staff. To what extent would this be an effective way to share its business data?
- Describe the relationship of one primary stakeholder to the IT system.
- Evaluate the impact of the social/ethical issues on the relevant stakeholders.

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# International Baccalaureate Diploma Programme Subject Brief

## Individuals and societies:

### Information technology in a global society – Higher level

First assessments 2012 – Last assessments 2019

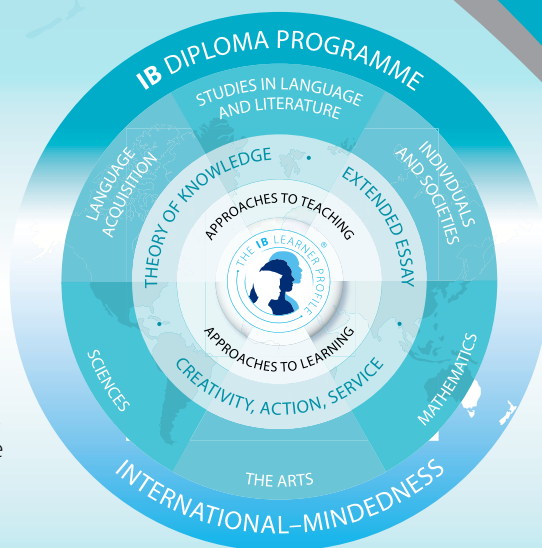
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These IB DP subject briefs illustrate four key course components.

- I. Course description and aims
- II. Curriculum model overview

- III. Assessment model
- IV. Sample questions



## I. Course description and aims

The IB DP information technology in a global society (ITGS) course is the study and evaluation of the impacts of information technology (IT) on individuals and society. It explores the advantages and disadvantages of the access and use of digitized information at the local and global level. ITGS provides a framework for the student to make informed judgments and decisions about the use of IT within social contexts.

The aims of the ITGS higher level courses are to:

- enable students to evaluate social and ethical considerations arising from the widespread use of IT by individuals, families, communities, organizations and societies at the local and global level
- develop students' understanding of the capabilities of current and emerging IT systems and to evaluate their impact on a range of stakeholders
- enable students to apply their knowledge of existing IT systems to various scenarios and to make informed judgments about the effects
- encourage students to use their knowledge of IT systems and practical IT skills to justify IT solutions for a specified client or end-user.

## II. Curriculum model overview

Component	Recommended teaching hours
<b>Strand 1: Social and ethical significance</b> <b>SL/HL core</b> <ul style="list-style-type: none"> <li>• Reliability and integrity</li> <li>• Security, privacy and anonymity</li> <li>• Intellectual property and authenticity</li> <li>• The digital divide and access equality</li> <li>• Surveillance</li> <li>• Globalization and cultural diversity</li> <li>• Policies, standards and protocols</li> <li>• People and machines</li> <li>• Digital citizenship</li> </ul>	40
<b>HL extension</b> Social and ethical considerations linked to the two HL extension topics and annually issued case study.	20
<b>Strand 2: Application to specified scenarios</b> <b>SL/HL core</b> <ul style="list-style-type: none"> <li>• Business and employment</li> <li>• Education and training</li> <li>• Environment</li> <li>• Health</li> <li>• Home and leisure</li> <li>• Politics and government</li> </ul>	40
<b>HL extension</b> Scenarios based on real-life situations used to address specified IT developments in the two HL extension topics and annually issued case study.	35

<b>Strand 3: IT systems</b> <b>SL/HL core</b> <ul style="list-style-type: none"> <li>• Hardware and software</li> <li>• Networks and internet</li> <li>• Personal and public communications</li> <li>• Multimedia/digital media</li> <li>• Databases, spreadsheets, modelling and simulations</li> <li>• Introduction to project management</li> </ul>	40
<b>HL extension</b> <ul style="list-style-type: none"> <li>• IT systems in organizations</li> <li>• Robotics, artificial intelligence and expert systems</li> <li>• Information systems specific to the annually issued case study</li> </ul>	35
<b>The project (practical application of IT skills)</b> The application of skills and knowledge to develop an original IT product for a specified client.	30

### III. Assessment model

Having followed the ITGS higher level course, students will be expected to demonstrate the following.

Demonstrate knowledge and understanding of specified content

- IT applications and developments in specified scenarios
- The social and ethical significance of specified IT applications and developments
- Technical knowledge of ITGS terminology, concepts and tools
- Technical knowledge of IT systems
- Topics related to the annually issued case study

Application and analysis

- Explain the impacts of IT applications and developments in specified scenarios
- Analyse the social and ethical significance of specified IT applications and developments
- Transfer IT knowledge and make connections between specific scenarios
- Apply technical knowledge of IT systems acquired through independent research to provide supporting evidence for possible decisions related to the annually issued case study

Synthesis and evaluation

- Evaluate local and global impacts of specified IT developments through individually researched studies
- Evaluate a solution involving IT to a specified problem using knowledge of IT systems

- Discuss the social and ethical implications of specified IT policies and developments
- Evaluate, formulate and justify possible strategic courses of action related to the annually issued case study

Use of ITGS skills

- Demonstrate evidence of project management in the development of a well-organized product to resolve a specific issue
- Use IT tools and the product development life cycle (PDLC) to create an original product in consultation with a client
- Demonstrate evidence of the use of appropriate techniques to develop an original IT product

### Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
External		4.75	80
Paper 1	Four structured responses	2.25	35
Paper 2	Written response to previously unseen article	1.25	20
Paper 3	Four questions based on pre-seen case study	1.25	25
Internal		30	20
Written report	Development of an original IT product for a specified client		

### IV. Sample questions

Questions based on stimulus material

- Identify two reasons why organizations continue to use legacy systems.
- Many organizations are developing intranets in an attempt to address the problems in their IT developments. To what extent are intranets likely to overcome these problems?
- Explain the purposes of the following in the home network:
  - SSID
  - Router
  - Switch

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# International Baccalaureate Diploma Programme Subject Brief

Individuals and societies:

Philosophy—Standard level

First assessments 2016 – Last assessments 2022

The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and life beyond. The DP aims to encourage students to be knowledgeable, inquiring, caring and compassionate, and to develop intercultural understanding, open-mindedness and the attitudes necessary to respect and evaluate a range of viewpoints. Approaches to teaching and learning (ATL) within the DP are deliberate strategies, skills and attitudes that permeate the teaching and learning environment. In the DP students develop skills from five ATL categories: thinking, research, social, self-management and communication.

To ensure both breadth and depth of knowledge and understanding, students must choose at least one subject from five groups: 1) their best language, 2) additional language(s), 3) social sciences, 4) experimental sciences, and 5) mathematics. Students may choose either an arts subject from group 6, or a second subject from groups 1 to 5. At least three and not more than four subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, action, service—are compulsory and central to the philosophy of the programme.



These IB DP subject briefs illustrate four key course components.

- I. Course description and aims
- II. Curriculum model overview

- III. Assessment model
- IV. Sample questions

## I. Course description and aims

The philosophy course provides an opportunity for students to engage with some of the world’s most interesting and influential thinkers. It also develops highly transferable skills such as the ability to formulate arguments clearly, to make reasoned judgments and to evaluate highly complex and multifaceted issues. The emphasis of the DP philosophy course is on “doing philosophy”, that is, on actively engaging students in philosophical activity. The course is focused on stimulating students’ intellectual curiosity and encouraging them to examine both their own perspectives and those of others.

Students are challenged to develop their own philosophical voice and to grow into independent thinkers. They develop their skills through the study of philosophical themes and the close reading of a philosophical text. They also learn to apply their philosophical knowledge and skills to real-life situations and to explore how non-philosophical material can be treated in a philosophical way. Teachers explicitly teach thinking and research skills such as comprehension, text analysis, transfer, and use of primary sources.

The aim of the philosophy course is to engage students in philosophical activity, enabling them to:

1. develop an inquiring and intellectually curious way of thinking
2. formulate arguments in a sound and purposeful way
3. examine critically their own experiences and their ideological and cultural perspectives

4. appreciate the diversity of approaches within philosophical thinking
5. apply their philosophical knowledge and skills to the world around them.

## II. Curriculum model overview

Component	Recommended teaching hours
<b>Core theme</b> The core theme “Being human” is compulsory for all students.	<b>50</b>
<b>Optional themes</b> SL students are required to study one theme from the following list. <ol style="list-style-type: none"> <li>1. Aesthetics</li> <li>2. Epistemology</li> <li>3. Ethics</li> <li>4. Philosophy and contemporary society</li> <li>5. Philosophy of religion</li> <li>6. Philosophy of science</li> <li>7. Political philosophy</li> </ol>	<b>40</b>
<b>Prescribed text</b> Students are required to study one text from the “IB list of prescribed philosophical texts”.	<b>40</b>
<b>Internal assessment</b> SL and HL students are required to produce a philosophical analysis of a non-philosophical stimulus.	<b>20</b>

### III. Assessment model

There are four assessment objectives for the DP philosophy course. Having followed the course, students will be expected to demonstrate the following:

1. Knowledge and understanding
  - Demonstrate knowledge and understanding of philosophical concepts, issues and arguments.
  - Identify the philosophical issues present in both philosophical and non-philosophical stimuli.
2. Application and analysis
  - Analyse philosophical concepts, issues and arguments.
  - Analyse the philosophical issues present in both philosophical and non-philosophical stimuli.
  - Explain and analyse different approaches to philosophical issues, making use of relevant supporting evidence/examples.
3. Synthesis and evaluation
  - Evaluate philosophical concepts, issues and arguments.
  - Construct and develop relevant, balanced and focused arguments.
  - Discuss and evaluate different interpretations or points of view.
4. Selection, use and application of appropriate skills and techniques
  - Demonstrate the ability to produce clear and well-structured written responses.
  - Demonstrate appropriate and precise use of philosophical vocabulary.
  - In the internal assessment task, demonstrate evidence of research skills, organization and referencing.

### Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
External		2.75	75
Paper 1	Stimulus-based questions on core theme and essay questions on optional themes.	1.75	50
Paper 2	Questions on prescribed philosophical texts.	1	25
Internal		20	25
Analysis	Students are required to complete a philosophical analysis of a non-philosophical stimulus.	20	25

### IV. Sample questions

To what extent do you agree with the claim that character-based approaches are more useful in making moral decisions than consequence-based approaches? (Paper 1)

Evaluate the claim that social networking technologies are fundamentally changing the nature of social interactions and relationships. (Paper 1)

Part a.) Explain Plato's distinction between knowledge, belief and ignorance.

Part b.) Discuss the viability of these distinctions. (Paper 2)

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# International Baccalaureate Diploma Programme Subject Brief

## Individuals and societies: Psychology

First assessment 2019

The Diploma Programme (DP) is a rigorous pre-university course of study designed for students in the 16 to 19 age range. It is a broad-based two-year course that aims to encourage students to be knowledgeable and inquiring, but also caring and compassionate. There is a strong emphasis on encouraging students to develop intercultural understanding, open-mindedness, and the attitudes necessary for them to respect and evaluate a range of points of view.

The course is presented as six academic areas enclosing a central core. Students study two modern languages (or a modern language and a classical language), a humanities or social science subject, an experimental science, mathematics and one of the creative arts. Instead of an arts subject, students can choose two subjects from another area. It is this comprehensive range of subjects that makes the Diploma Programme a demanding course of study designed to prepare students effectively for university entrance. In each of the academic areas students have flexibility in making their choices, which means they can choose subjects that particularly interest them and that they may wish to study further at university.

Normally, three subjects (and not more than four) are taken at higher level (HL), and the others are taken at standard level (SL). The IB recommends 240 teaching hours for HL subjects and 150 hours for SL. Subjects at HL are studied in greater depth and breadth than at SL.

In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.

This IB DP subject brief has four key components:

- I. Course description and aims
- II. Curriculum model overview
- III. Assessment model
- IV. Sample questions



### I. Course description and aims

At the core of the DP psychology course is an introduction to three different approaches to understanding behaviour: the biological, cognitive and sociocultural approaches. Students study and critically evaluate the knowledge, concepts, theories and research that have developed the understanding in these fields.

The interaction of these approaches to studying psychology forms the basis of a holistic and integrated approach to understanding mental processes and behaviour as a complex, dynamic phenomenon, allowing students to appreciate the diversity as well as the commonality between their own behaviour and that of others.

The contribution and the interaction of the three approaches is understood through the four options in the course, focusing on areas of applied psychology: abnormal psychology, developmental psychology, health psychology, and the psychology of relationships. The options provide an opportunity to take what is learned from the study of the approaches to psychology and apply it to specific lines of inquiry.

Psychologists employ a range of research methods, both qualitative and quantitative, to test their observations and hypotheses. DP psychology promotes an understanding of the various approaches to research and how they are used to critically reflect on the evidence as well as assist in the design, implementation, analysis and evaluation of the students'

own investigations. Surrounding the approaches and the options are the overarching themes of research and ethics. A consideration of both is paramount to the nature of the subject.

The aims of the psychology course at SL and at HL are to:

- develop an understanding of the biological, cognitive and socio-cultural factors affecting mental processes and behaviour
- apply an understanding of the biological, cognitive and sociocultural factors affecting mental processes and behaviour to at least one applied area of study
- understand diverse methods of inquiry
- understand the importance of ethical practice in psychological research in general and observe ethical practice in their own inquiries
- ensure that ethical practices are upheld in all psychological inquiry and discussion
- develop an awareness of how psychological research can be applied to address real-world problems and promote positive change
- provide students with a basis for further study, work and leisure through the use of an additional language
- foster curiosity, creativity and a lifelong enjoyment of language learning.

## II. Curriculum model overview

Syllabus component	Teaching hours	
	SL	HL
<b>Core</b> <ul style="list-style-type: none"> <li>Biological approach to understanding behaviour</li> <li>Cognitive approach to understanding behaviour</li> <li>Sociocultural approach to understanding behaviour</li> <li>Approaches to researching behaviour</li> </ul>	90	120
<b>Options</b> <ul style="list-style-type: none"> <li>Abnormal psychology</li> <li>Developmental psychology</li> <li>Health psychology</li> <li>Psychology of human relationships</li> </ul>	20	40
<b>Internal assessment</b> Experimental study	20	20
<b>Total teaching hours</b>	150	240

## III. Assessment model

By the end of the psychology course at SL or at HL, students will be expected to demonstrate the following.

- Knowledge and comprehension of specified content
  - Demonstrate knowledge and comprehension of:
    - key terms and concepts in psychology
    - a range of psychological theories and studies
    - the biological, cognitive and sociocultural approaches to mental processes and behaviour
    - research methods used in psychology.
- Application and analysis
  - Demonstrate an ability to use examples of psychological research and psychological concepts to formulate an argument in response to a specific question.
  - Demonstrate application and analysis of:
    - a range of psychological theories and research studies
    - the knowledge relevant to areas of applied psychology.
  - At HL only, analyse qualitative and quantitative research in psychology.
- Synthesis and evaluation
  - Evaluate the contribution of:
    - psychological theories to understanding human psychology
    - research to understanding human psychology
    - the theories and research in areas of applied psychology.
  - At HL only, evaluate research scenarios from a methodological and ethical perspective.

- Selection and use of skills appropriate to psychology
  - Demonstrate the acquisition of skills required for experimental design, data collection and presentation, data analysis and the evaluation of a simple experiment while demonstrating ethical practice.
  - Work in a group to design a method for a simple experimental investigation, organize the investigation and record the required data for a simple experiment.
  - Write a report of a simple experiment.

## Assessment at a glance

Type of assessment	Format of assessment	Time (hours)		Weighting of final grade (%)	
		SL	HL	SL	HL
External		3	5	75	80
Paper 1	Three short answer questions on the core. One essay from a choice of three on the biological, cognitive and sociocultural approaches. <b>HL only:</b> essays will reference additional HL topic.	2	2	50	40
Paper 2	<b>SL:</b> one question from a choice of three on one option. <b>HL:</b> two questions; one each from a choice of three on two options.	1	2	25	20
Paper 3	Three short answer questions on approaches to research.		1		20
Internal		20	20	25	20
Experimental study	A report on an experimental study undertaken by the student.	20	20	25	20

## IV. Sample questions

- Outline one study investigating schema.
- Discuss ethical considerations linked to genetic research into human behaviour.
- (HL only)** Discuss how the use of technology affects one cognitive process.

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# International Baccalaureate Diploma Programme Subject Brief

Sciences:

Biology—Standard level

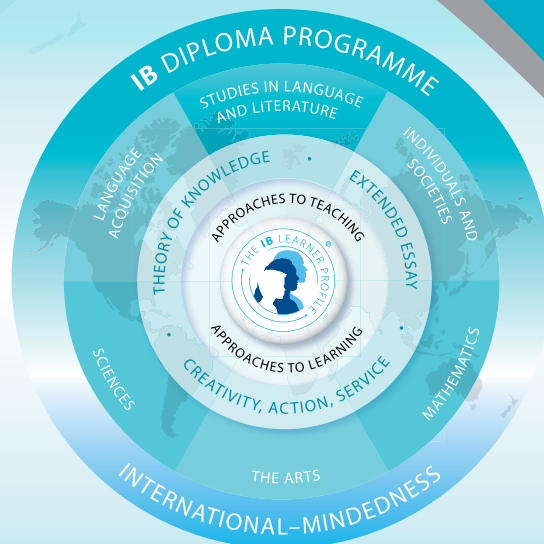
First assessments 2016 – Last assessments 2022

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To ensure both breadth and depth of knowledge and understanding, students must choose at least one subject from five groups: 1) their best language, 2) additional language(s), 3) social sciences, 4) experimental sciences, and 5) mathematics. Students may choose either an arts subject from group 6, or a second subject from groups 1 to 5. At least three and not more than four subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, action, service—are compulsory and central to the philosophy of the programme.

These IB DP subject briefs illustrate four key course components.

- I. Course description and aims
- II. Curriculum model overview



- III. Assessment model
- IV. Sample questions

## I. Course description and aims

Biology is the study of life. The vast diversity of species makes biology both an endless source of fascination and a considerable challenge. Biologists attempt to understand the living world at all levels from the micro to the macro using many different approaches and techniques. Biology is still a young science and great progress is expected in the 21st century. This progress is important at a time of growing pressure on the human population and the environment.

By studying biology in the DP students should become aware of how scientists work and communicate with each other. While the scientific method may take on a wide variety of forms, it is the emphasis on a practical approach through experimental work that characterizes the sciences. Teachers provide students with opportunities to design investigations, collect data, develop manipulative skills, analyse results, collaborate with peers and evaluate and communicate their findings

Through the overarching theme of the nature of science, the aims of the DP biology course are to enable students to:

1. appreciate scientific study and creativity within a global context through stimulating and challenging opportunities
2. acquire a body of knowledge, methods and techniques that characterize science and technology
3. apply and use a body of knowledge, methods and techniques that characterize science and technology
4. develop an ability to analyse, evaluate and synthesize scientific information
5. develop a critical awareness of the need for, and the value of, effective collaboration and communication during scientific activities

6. develop experimental and investigative scientific skills including the use of current technologies
7. develop and apply 21st century communication skills in the study of science
8. become critically aware, as global citizens, of the ethical implications of using science and technology
9. develop an appreciation of the possibilities and limitations of science and technology
10. develop an understanding of the relationships between scientific disciplines and their influence on other areas of knowledge.

## II. Curriculum model overview

Component	Recommended teaching hours
<b>Core</b>	<b>95</b>
1. Cell biology	15
2. Molecular biology	21
3. Genetics	15
4. Ecology	12
5. Evolution and biodiversity	12
6. Human physiology	20
<b>Option (choice of 1 out of 4)</b>	<b>15</b>
1. Neurobiology and behaviour	15
2. Biotechnology and bioinformatics	15
3. Ecology and conservation	15
4. Human physiology	15

<b>Practical scheme of work</b>	<b>40</b>
Prescribed and other practical activities	20
Individual investigation	10
Group 4 project	10

## The group 4 project

The group 4 project is a collaborative activity where students from different group 4 subjects, within or between schools, work together. It allows for concepts and perceptions from across disciplines to be shared while appreciating the environmental, social and ethical implications of science and technology. It can be practically or theoretically based and aims to develop an understanding of the relationships between scientific disciplines and their influence on other areas of knowledge. The emphasis is on interdisciplinary cooperation and the scientific processes.

## III. Assessment model

It is the intention of this course that students are able to fulfill the following assessment objectives:

1. Demonstrate knowledge and understanding of:
  - facts, concepts, and terminology
  - methodologies and techniques
  - communicating scientific information.
2. Apply:
  - facts, concepts, and terminology
  - methodologies and techniques
  - methods of communicating scientific information.
3. Formulate, analyse and evaluate:
  - hypotheses, research questions and predictions
  - methodologies and techniques
  - primary and secondary data
  - scientific explanations.
4. Demonstrate the appropriate research, experimental, and personal skills necessary to carry out insightful and ethical investigations.

## Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
External		3	80
Paper 1	30 multiple-choice questions	0.75	20
Paper 2	Data-based, short answer and extended response questions	1.25	40
Paper 3	Data-based, short answer and extended response questions	1	20
Internal		10	20
Individual investigation	Investigation and write-up of 6 to 12 pages	10	20

## IV. Sample questions

- Cyclins were discovered by Timothy R. Hunt in 1982 while studying sea urchins. What is a function of cyclins? (Paper 1)
- Antibiotics can be used to treat bacterial infections in human tissues because of differences in cell structure between prokaryotes and eukaryotes.
  - o Distinguish between the structure of prokaryotes and eukaryotes.
  - o Evaluate the drug tests that Florey and Chain carried out on penicillin.
  - o Explain the reasons for the ineffectiveness of antibiotics in the treatment of viral diseases. (Paper 2)
- The company BASF produces a genetically modified potato called Amflora. Outline the purpose of modifying the potato. (Paper 3)

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# International Baccalaureate Diploma Programme Subject Brief

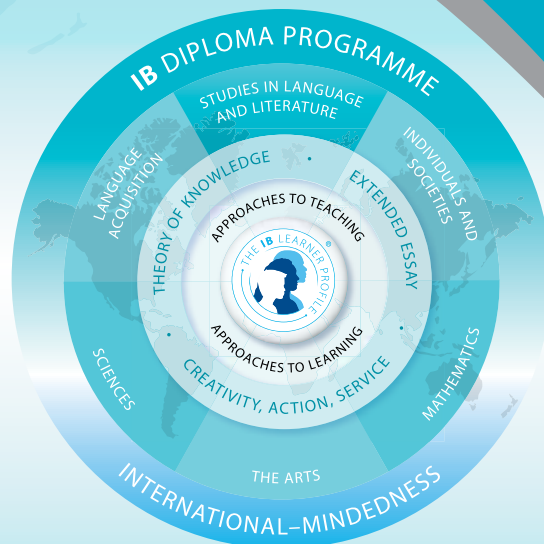
Sciences:

Biology—Higher level

First assessments 2016 – Last assessments 2022

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- II. Curriculum model overview

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- IV. Sample questions

## I. Course description and aims

Biology is the study of life. The vast diversity of species makes biology both an endless source of fascination and a considerable challenge. Biologists attempt to understand the living world at all levels from the micro to the macro using many different approaches and techniques. Biology is still a young science and great progress is expected in the 21st century. This progress is important at a time of growing pressure on the human population and the environment.

By studying biology in the DP students should become aware of how scientists work and communicate with each other. While the scientific method may take on a wide variety of forms, it is the emphasis on a practical approach through experimental work that characterizes the sciences. Teachers provide students with opportunities to design investigations, collect data, develop manipulative skills, analyse results, collaborate with peers and evaluate and communicate their findings.

Through the overarching theme of the nature of science, the aims of the DP biology course are to enable students to:

1. appreciate scientific study and creativity within a global context through stimulating and challenging opportunities
2. acquire a body of knowledge, methods and techniques that characterize science and technology
3. apply and use a body of knowledge, methods and techniques that characterize science and technology
4. develop an ability to analyse, evaluate and synthesize scientific information
5. develop a critical awareness of the need for, and the value of, effective collaboration and communication during scientific activities

6. develop experimental and investigative scientific skills including the use of current technologies
7. develop and apply 21st century communication skills in the study of science
8. become critically aware, as global citizens, of the ethical implications of using science and technology
9. develop an appreciation of the possibilities and limitations of science and technology
10. develop an understanding of the relationships between scientific disciplines and their influence on other areas of knowledge.

## II. Curriculum model overview

Component	Recommended teaching hours
<b>Core</b>	<b>95</b>
1. Cell biology	15
2. Molecular biology	21
3. Genetics	15
4. Ecology	12
5. Evolution and biodiversity	12
6. Human physiology	20
<b>Additional higher level</b>	<b>60</b>
7. Nucleic acids	9
8. Metabolism, cell respiration and photosynthesis	14
9. Plant biology	13
10. Genetics and evolution	8
11. Animal physiology	16

<b>Option (Choice of one out of four)</b>	<b>25</b>
A. Neurobiology and behaviour	25
B. Biotechnology and bioinformatics	25
C. Ecology and conservation	25
D. Human physiology	25
<b>Practical scheme of work</b>	<b>60</b>
Prescribed and other practical activities	40
Individual investigation	10
Group 4 project	10

## The group 4 project

The group 4 project is a collaborative activity where students from different group 4 subjects, within or between schools, work together. It allows for concepts and perceptions from across disciplines to be shared while appreciating the environmental, social and ethical implications of science and technology. It can be practically or theoretically based and aims to develop an understanding of the relationships between scientific disciplines and their influence on other areas. The emphasis is on interdisciplinary cooperation and the scientific processes

## III. Assessment model

It is the intention of this course that students are able to fulfill the following assessment objectives:

- Demonstrate knowledge and understanding of:
  - facts, concepts, and terminology
  - methodologies and techniques
  - communicating scientific information.
- Apply:
  - facts, concepts, and terminology
  - methodologies and techniques
  - methods of communicating scientific information.
- Formulate, analyse and evaluate:
  - hypotheses, research questions and predictions
  - methodologies and techniques
  - primary and secondary data
  - scientific explanations.
- Demonstrate the appropriate research, experimental, and personal skills necessary to carry out insightful and ethical investigations.

## Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
External		4.5	80
Paper 1	40 multiple-choice questions	1	20
Paper 2	Data-based, short answer and extended response questions	2.25	36
Paper 3	Data-based, short answer and extended response questions	1.25	24
Internal		10	20
Individual investigation	Investigation and write-up of 6 to 12 pages	10	20

## IV. Sample questions

- Membrane proteins of mice cells were marked with green and membrane proteins of human cells were marked with red. The cells were fused together. What would be seen after two hours? (Paper 1)
- The species is the basis for naming and classifying organism.
  - Explain how new species can emerge by
    - directional selection
    - disruptive selection
    - polyploidy.
  - Outline the advantages to scientists of the binomial system for naming species.
  - Describe the use of dichotomous keys for the identification of specimens. (Paper 2)
- Brain death is a clinical diagnosis based on the absence of neurological function, with a known irreversible cause of coma.
  - Explain a named method to assess brain damage.
  - Distinguish between a reflex arc and other responses by the nervous system.
  - Describe the events that occur in the nervous system when something very hot is touched. (Paper 3)

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# International Baccalaureate Diploma Programme Subject Brief

Sciences:

Chemistry—Standard level

First assessments 2016 – Last assessments 2022

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These IB DP subject briefs illustrate four key course components.

- I. Course description and aims
- II. Curriculum model overview



- III. Assessment model
- IV. Sample questions

## I. Course description and aims

Chemistry is an experimental science that combines academic study with the acquisition of practical and investigational skills. Chemical principles underpin both the physical environment in which we live and all biological systems. Chemistry is often a prerequisite for many other courses in higher education, such as medicine, biological science and environmental science.

Both theory and practical work should be undertaken by all students as they complement one another naturally, both in school and in the wider scientific community. The DP chemistry course allows students to develop a wide range of practical skills and to increase facility in the use of mathematics. It also allows students to develop interpersonal and information technology skills, which are essential to life in the 21st century.

By studying chemistry students should become aware of how scientists work and communicate with each other. While the scientific method may take on a wide variety of forms, it is the emphasis on a practical approach through experimental work that characterizes the subject. Teachers provide students with opportunities to develop manipulative skills, design investigations, collect data, analyse results and evaluate and communicate their findings.

Through the overarching theme of the nature of science, the aims of the DP chemistry course are to enable students to:

1. appreciate scientific study and creativity within a global context through stimulating and challenging opportunities
2. acquire a body of knowledge, methods and techniques that characterize science and technology
3. apply and use a body of knowledge, methods and techniques that characterize science and technology

4. develop an ability to analyse, evaluate and synthesize scientific information
5. develop a critical awareness of the need for, and the value of, effective collaboration and communication during scientific activities
6. develop experimental and investigative scientific skills including the use of current technologies
7. develop and apply 21st century communication skills in the study of science
8. become critically aware, as global citizens, of the ethical implications of using science and technology
9. develop an appreciation of the possibilities and limitations of science and technology
10. develop an understanding of the relationships between scientific disciplines and their influence on other areas of knowledge.

## II. Curriculum model overview

Component	Recommended teaching hours
<b>Core</b>	<b>95</b>
1. Stoichiometric relationships	13.5
2. Atomic structure	6
3. Periodicity	6
4. Chemical bonding and structure	13.5
5. Energetics/thermochemistry	9
6. Chemical kinetics	7
7. Equilibrium	4.5
8. Acids and bases	6.5
9. Redox processes	8
10. Organic chemistry	11
11. Measurement and data processing	10

<b>Option (choice of one out of four)</b>	<b>15</b>
A. Materials	15
B. Biochemistry	15
C. Energy	15
D. Medicinal chemistry	15
<b>Practical scheme of work</b>	<b>40</b>
Prescribed and other practical activities	20
Individual investigation (internally assessed)	10
Group 4 project	10

### The group 4 project

The group 4 project is a collaborative activity where students from different group 4 subjects, within or between schools, work together. It allows for concepts and perceptions from across disciplines to be shared while appreciating the environmental, social and ethical implications of science and technology. It can be practically or theoretically based and aims to develop an understanding of the relationships between scientific disciplines and their influence on other areas of knowledge. The emphasis is on interdisciplinary cooperation and the scientific processes.

### III. Assessment model

It is the intention of this course that students are able to fulfill the following assessment objectives:

- Demonstrate knowledge and understanding of:
  - facts, concepts, and terminology
  - methodologies and techniques
  - communicating scientific information.
- Apply:
  - facts, concepts, and terminology
  - methodologies and techniques
  - methods of communicating scientific information.
- Formulate, analyse and evaluate:
  - hypotheses, research questions and predictions
  - methodologies and techniques
  - primary and secondary data
  - scientific explanations.
- Demonstrate the appropriate research, experimental, and personal skills necessary to carry out insightful and ethical investigations.

### Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
External		3	80
Paper 1	30 multiple-choice questions (Core)	0.75	20
Paper 2	Short answer and extended response questions (Core)	1.25	40
Paper 3	Data- and practical-based questions, plus short answer and extended response questions on the option	1	20
Internal		10	20
Individual investigation	Investigation and write-up of 6 to 12 pages	10	20

### IV. Sample questions

- What is the total number of atoms in 0.50 mol of 1,4-diaminobenzene,  $\text{H}_2\text{NC}_6\text{H}_4\text{NH}_2$ ?
  - $16.0 \times 10^{23}$
  - $48.0 \times 10^{23}$
  - $96.0 \times 10^{23}$
  - $192.0 \times 10^{23}$
 (Avogadro's constant ( $L$  or  $N_A$ ) =  $6.0 \times 10^{23} \text{ mol}^{-1}$ .) (Paper 1)
- Many automobile manufacturers are developing vehicles that use hydrogen as a fuel.
  - Suggest why such vehicles are considered to cause less harm to the environment than those with internal combustion engines.
  - Hydrogen can be produced from the reaction of coke with steam:  $\text{C(s)} + 2\text{H}_2\text{O(g)} \rightarrow 2\text{H}_2\text{(g)} + \text{CO}_2\text{(g)}$   
Using information from section 12 of the data booklet, calculate the change in enthalpy,  $\Delta H$ , in  $\text{kJ mol}^{-1}$ , for this reaction. (Paper 2)

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# International Baccalaureate Diploma Programme Subject Brief

Sciences:

Chemistry—Higher level

First assessments 2016 – Last assessments 2022

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To ensure both breadth and depth of knowledge and understanding, students must choose at least one subject from five groups: 1) their best language, 2) additional language(s), 3) social sciences, 4) experimental sciences, and 5) mathematics. Students may choose either an arts subject from group 6, or a second subject from groups 1 to 5. At least three and not more than four subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, action, service—are compulsory and central to the philosophy of the programme.

These IB DP subject briefs illustrate four key course components.

- I. Course description and aims
- II. Curriculum model overview



- III. Assessment model
- IV. Sample questions

## I. Course description and aims

Chemistry is an experimental science that combines academic study with the acquisition of practical and investigational skills. Chemical principles underpin both the physical environment in which we live and all biological systems. Chemistry is often a prerequisite for many other courses in higher education, such as medicine, biological science and environmental science.

Both theory and practical work should be undertaken by all students as they complement one another naturally, both in school and in the wider scientific community. The DP chemistry course allows students to develop a wide range of practical skills and to increase facility in the use of mathematics. It also allows students to develop interpersonal and information technology skills, which are essential to life in the 21st century.

By studying chemistry students should become aware of how scientists work and communicate with each other. While the scientific method may take on a wide variety of forms, it is the emphasis on a practical approach through experimental work that characterizes the subject.

Teachers provide students with opportunities to develop manipulative skills, design investigations, collect data, analyse results and evaluate and communicate their findings.

Through the overarching theme of the nature of science, the aims of the DP chemistry course are to enable students to:

1. appreciate scientific study and creativity within a global context through stimulating and challenging opportunities
2. acquire a body of knowledge, methods and techniques that characterize science and technology
3. apply and use a body of knowledge, methods and techniques that

characterize science and technology

4. develop an ability to analyse, evaluate and synthesize scientific information
5. develop a critical awareness of the need for, and the value of, effective collaboration and communication during scientific activities
6. develop experimental and investigative scientific skills including the use of current technologies
7. develop and apply 21st century communication skills in the study of science
8. become critically aware, as global citizens, of the ethical implications of using science and technology
9. develop an appreciation of the possibilities and limitations of science and technology
10. develop an understanding of the relationships between scientific disciplines and their influence on other areas of knowledge.

## II. Curriculum model overview

Component	Recommended teaching hours
<b>Core</b>	<b>95</b>
1. Stoichiometric relationships	13.5
2. Atomic structure	6
3. Periodicity	6
4. Chemical bonding and structure	13.5
5. Energetics/thermochemistry	9
6. Chemical kinetics	7
7. Equilibrium	4.5
8. Acids and bases	6.5
9. Redox processes	8
10. Organic chemistry	11
11. Measurement and data processing	10

<b>Additional higher level (AHL)</b>	<b>60</b>
12. Atomic structure	2
13. The periodic table—the transition metals	4
14. Chemical bonding and structure	7
15. Energetics/thermochemistry	7
16. Chemical kinetics	6
17. Equilibrium	4
18. Acids and bases	10
19. Redox processes	6
20. Organic chemistry	12
21. Measurement and analysis	2
<b>Option (Choice of one out of four)</b>	<b>25</b>
A. Materials	25
B. Biochemistry	25
C. Energy	25
D. Medicinal chemistry	25
<b>Practical scheme of work</b>	<b>60</b>
Prescribed and other practical activities	40
Individual investigation (internally assessed)	10
Group 4 project	10

## The group 4 project

The group 4 project is a collaborative activity where students from different group 4 subjects, within or between schools, work together. It allows for concepts and perceptions from across disciplines to be shared while appreciating the environmental, social and ethical implications of science and technology. It can be practically or theoretically based and aims to develop an understanding of the relationships between scientific disciplines and their influence on other areas of knowledge. The emphasis is on interdisciplinary cooperation and the scientific processes.

## III. Assessment model

Studying this course, students should be able to fulfill the following assessment objectives:

- Demonstrate knowledge and understanding of:
  - facts, concepts, and terminology
  - methodologies and techniques
  - communicating scientific information.
- Apply:
  - facts, concepts, and terminology
  - methodologies and techniques
  - methods of communicating scientific information.
- Formulate, analyse and evaluate:
  - hypotheses, research questions and predictions
  - methodologies and techniques
  - primary and secondary data
  - scientific explanations.

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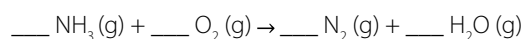
- Demonstrate the appropriate research, experimental, and personal skills necessary to carry out insightful and ethical investigations.

## Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
External		4.5	80
Paper 1	40 multiple-choice questions (Core and AHL)	1	20
Paper 2	Short answer and extended response questions (Core and AHL)	2.25	36
Paper 3	Data- and practical –based questions, plus short answer and extended response questions on the option	1.25	24
Internal		10	20
Individual investigation	Investigation and write-up of 6 to 12 pages	10	20

## IV. Sample questions

- What is the sum of the coefficients when the equation for the combustion of ammonia is balanced using the smallest possible whole numbers?



- 6
- 12
- 14
- 15 (Paper 1)

- The two isomers of  $[\text{Pt}(\text{NH}_3)_2\text{Cl}_2]$  are crystalline. One of the isomers is widely used in the treatment of cancer.
  - Draw both isomers of the complex,
  - Explain the polarity of each isomer using a diagram of each isomer to support your answer,
  - State a suitable method (other than looking at dipole moments) to distinguish between the two isomers
  - Compare and contrast the bonding types formed by nitrogen in  $[\text{Pt}(\text{NH}_3)_2\text{Cl}_2]$  (Paper 2)

# International Baccalaureate Diploma Programme Subject Brief

Interdisciplinary course:

Environmental systems and societies—standard level

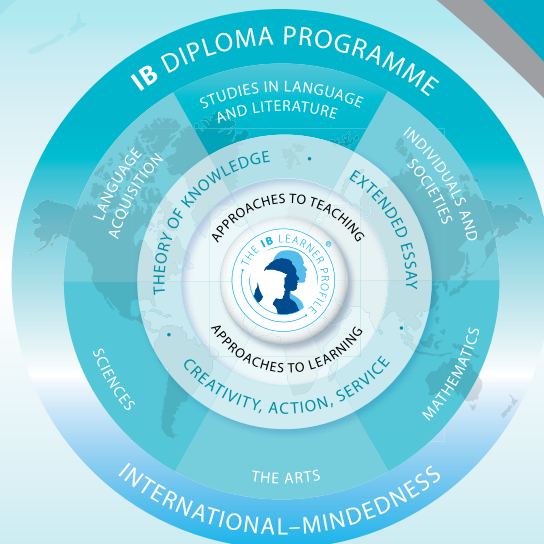
First assessments 2017—last assessments 2023

The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and life beyond. The DP aims to encourage students to be knowledgeable, inquiring, caring and compassionate, and to develop intercultural understanding, open-mindedness and the attitudes necessary to respect and evaluate a range of viewpoints. Approaches to teaching and learning (ATL) are deliberate strategies, skills and attitudes that permeate the teaching and learning environment. In the DP, students develop skills from five ATL categories: thinking, research, social, self-management and communication.

To ensure both breadth and depth of knowledge and understanding, students must choose six courses from six distinct groups: 1) studies in language and literature; 2) language acquisition; 3) individuals and societies; 4) sciences; 5) mathematics; 6) the arts. Students may choose to replace the arts course with a second course from one of the other five groups. At least three, and not more than four, subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.

These DP subject briefs illustrate four key course components.

I. Course description and aims  
II. Curriculum model overview



III. Assessment model  
IV. Sample questions

## I. Course description and aims

Environmental systems and societies (ESS) is an interdisciplinary course offered only at standard level (SL). This course can fulfill either the individuals and societies or the sciences requirement. Alternatively, this course enables students to satisfy the requirements of both subjects groups simultaneously while studying one course.

ESS is firmly grounded in both a scientific exploration of environmental systems in their structure and function, and in the exploration of cultural, economic, ethical, political and social interactions of societies with the environment. As a result of studying this course, students will become equipped with the ability to recognize and evaluate the impact of our complex system of societies on the natural world.

The interdisciplinary nature of the DP course requires a broad skill set from students, including the ability to perform research and investigations, participation in philosophical discussion and problem-solving. The course requires a systems approach to environmental understanding and promotes holistic thinking about environmental issues. Teachers explicitly teach thinking and research skills such as comprehension, text analysis, knowledge transfer and use of primary sources. They encourage students to develop solutions at the personal, community and global levels.

The aims of the DP **environmental systems and societies** course are to enable students to:

- acquire the knowledge and understandings of environmental systems and issues at a variety of scales
- apply the knowledge, methodologies and skills to analyse environmental systems and issues at a variety of scales
- appreciate the dynamic interconnectedness between environmental systems and societies
- value the combination of personal, local and global perspectives in making informed decisions and taking responsible actions on environmental issues
- be critically aware that resources are finite, that these could be inequitably distributed and exploited, and that management of these inequities is the key to sustainability
- develop awareness of the diversity of environmental value systems
- develop critical awareness that environmental problems are caused and solved by decisions made by individuals and societies that are based on different areas of knowledge
- engage with the controversies that surround a variety of environmental issues
- create innovative solutions to environmental issues by engaging actively in local and global contexts.

## II. Curriculum model overview

Component	Recommended teaching hours
<b>Core content</b>	<b>120</b>
1. Foundations of environmental systems and societies	16
2. Ecosystems and ecology	25
3. Biodiversity and conservation	13
4. Water and aquatic food production systems and societies	15
5. Soil systems and terrestrial food production systems and societies	12
6. Atmospheric systems and societies	10
7. Climate change and energy production	13
8. Human systems and resource use	16
<b>Practical scheme of work</b>	<b>30</b>
Practical activities	20
Individual investigation	10

### The group 4 project

ESS students have the option to participate in the group 4 project. For those who participate, 10 hours of practical activities will be replaced with 10 hours of work on the group 4 project.

The group 4 project is a collaborative activity where students from different group 4 subjects, within or between schools, work together. It allows for concepts and perceptions from across disciplines to be shared while appreciating the environmental, social and ethical implications of science and technology. It can be practically or theoretically based and aims to develop an understanding of the relationships between scientific disciplines and their influence on other areas of knowledge. The emphasis is on interdisciplinary cooperation and the scientific processes.

## III. Assessment model

There are four assessment objectives for the DP environmental systems and societies course. Having followed the course at SL, students will be expected to do the following.

### Assessment objective 1

Demonstrate knowledge and understanding of relevant:

- facts and concepts
- methodologies and techniques
- values and attitudes.

### Assessment objective 2

Apply this knowledge and understanding in the analysis of:

- explanations, concepts and theories
- data and models
- case studies in unfamiliar contexts
- arguments and value systems.

### Assessment objective 3

Evaluate, justify and synthesize, as appropriate:

- explanations, theories and models
- arguments and proposed solutions
- methods of fieldwork and investigation
- cultural viewpoints and value systems.

### Assessment objective 4

Engage with investigations of environmental and societal issues at the local and global level through:

- evaluating the political, economic and social contexts of issues
- selecting and applying the appropriate research and practical skills necessary to carry out investigations
- suggesting collaborative and innovative solutions that demonstrate awareness and respect for the cultural differences and value systems of others.

## Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
External		3	75
Paper 1	Case study	1	25
Paper 2	Short answers and structured essays	2	50
Internal			
Individual investigation	Written report of a research question designed and implemented by the student.	10	25

## IV. Sample questions

Paper 1

- With reference to source material, outline two possible reasons why the snow leopard has received special attention from conservationists. [8]
- With reference to figures 6, 7 and 9 [in the resource booklet] explain how desertification and water resource shortage have led to the formation of smog in Ulan Bator. [3]

Paper 2

- Outline how the reasons for food wastage may differ between human societies. [4]
- Explain how the choice of food production systems may influence the ecological footprint of a named human society. [7]
- Discuss how different environmental value systems influence responses to the human population growth rate. [9]

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# International Baccalaureate Diploma Programme Subject Brief

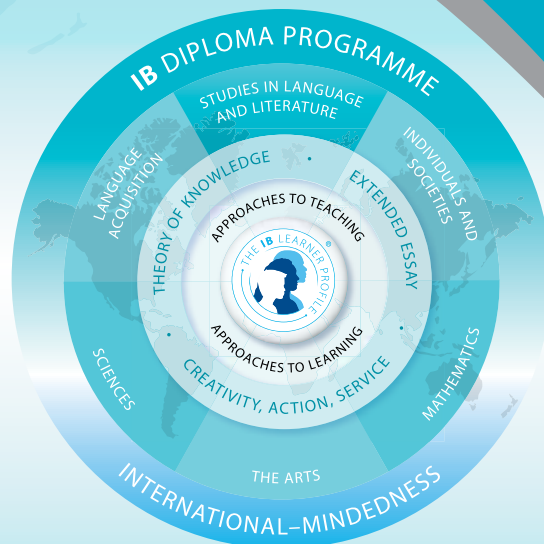
Sciences:

Physics—Standard level

First assessments 2016 – Last assessments 2022

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To ensure both breadth and depth of knowledge and understanding, students must choose at least one subject from five groups: 1) their best language, 2) additional language(s), 3) social sciences, 4) experimental sciences, and 5) mathematics. Students may choose either an arts subject from group 6, or a second subject from groups 1 to 5. At least three and not more than four subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, action, service—are compulsory and central to the philosophy of the programme.



These IB DP subject briefs illustrate four key course components.

- I. Course description and aims
- II. Curriculum model overview

- III. Assessment model
- IV. Sample questions

## I. Course description and aims

Physics is the most fundamental of the experimental sciences as it seeks to explain the universe itself, from the very smallest particles to the vast distances between galaxies. Despite the exciting and extraordinary development of ideas throughout the history of physics, observations remain essential to the very core of the subject. Models are developed to try to understand observations, and these themselves can become theories that attempt to explain the observations.

Besides helping us better understand the natural world, physics gives us the ability to alter our environments. This raises the issue of the impact of physics on society, the moral and ethical dilemmas, and the social, economic and environmental implications of the work of physicists.

By studying physics students should become aware of how scientists work and communicate with each other. While the scientific method may take on a wide variety of forms, it is the emphasis on a practical approach through experimental work that characterizes the subject. Teachers provide students with opportunities to develop manipulative skills, design investigations, collect data, analyse results and evaluate and communicate their findings.

Through the overarching theme of the nature of science, the aims of the DP physics course are to enable students to:

1. appreciate scientific study and creativity within a global context through stimulating and challenging opportunities
2. acquire a body of knowledge, methods and techniques that characterize science and technology
3. apply and use a body of knowledge, methods and techniques that characterize science and technology

4. develop an ability to analyse, evaluate and synthesize scientific information
5. develop a critical awareness of the need for, and the value of, effective collaboration and communication during scientific activities
6. develop experimental and investigative scientific skills including the use of current technologies
7. develop and apply 21st century communication skills in the study of science
8. become critically aware, as global citizens, of the ethical implications of using science and technology
9. develop an appreciation of the possibilities and limitations of science and technology
10. develop an understanding of the relationships between scientific disciplines and their influence on other areas of knowledge.

## II. Curriculum model overview

Component	Recommended teaching hours
<b>Core</b>	<b>95</b>
1. Measurements and uncertainties	5
2. Mechanics	22
3. Thermal physics	11
4. Waves	15
5. Electricity and magnetism	15
6. Circular motion and gravitation	5
7. Atomic, nuclear and particle physics	14
8. Energy production	8

<b>Option (Choice of one out of four)</b>	<b>15</b>
A. Relativity	15
B. Engineering physics	15
C. Imaging	15
D. Astrophysics	15
<b>Practical scheme of work</b>	<b>40</b>
Prescribed and other practical activities	20
Individual investigation (internally assessed)	10
Group 4 project	10

## The group 4 project

The group 4 project is a collaborative activity where students from different group 4 subjects, within or between schools, work together. It allows for concepts and perceptions from across disciplines to be shared while appreciating the environmental, social and ethical implications of science and technology. It can be practically or theoretically based and aims to develop an understanding of the relationships between scientific disciplines and their influence on other areas of knowledge. The emphasis is on interdisciplinary cooperation and the scientific processes.

## III. Assessment model

It is the intention of this course that students are able to fulfill the following assessment objectives:

- Demonstrate knowledge and understanding of:
  - facts, concepts, and terminology
  - methodologies and techniques
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- Apply:
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- Formulate, analyse and evaluate:
  - hypotheses, research questions and predictions
  - methodologies and techniques
  - primary and secondary data
  - scientific explanations.
- Demonstrate the appropriate research, experimental, and personal skills necessary to carry out insightful and ethical investigations.

## Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
External		3	80
Paper 1	30 multiple-choice questions	0.75	20
Paper 2	Short answer and extended response questions (Core)	1.25	40
Paper 3	Data- and practical-based questions plus, short answer and extended response questions on the option	1	20
Internal		10	20
Individual investigation	Investigation and write-up of 6 to 12 pages	10	20

## IV. Sample questions

- An object falls freely from rest through a vertical distance of 44.0m in a time of 3.0s. What value should be quoted for the acceleration of free-fall? (Paper 1)
  - $9.778\text{m s}^{-2}$
  - $9.780\text{m s}^{-2}$
  - $9.78\text{m s}^{-2}$
  - $9.8\text{m s}^{-2}$
- There is a suggestion that the temperature of the Earth may increase if the use of fossil fuels is not reduced over the coming years. Explain, with reference to the enhanced greenhouse effect, why this temperature increase may occur. (Paper 2)
- In an experiment to measure the specific heat capacity of a metal, a piece of metal is placed inside a container of boiling water at  $100^{\circ}\text{C}$ . The metal is then transferred into a calorimeter containing water at a temperature of  $10^{\circ}\text{C}$ . The final equilibrium temperature of the water was measured. One source of error in this experiment is that the small mass of boiling water will be transferred to the calorimeter along with the metal.
  - Suggest the effect of the error on the measured value of the specific heat capacity of the metal
  - State one other source of error for this experiment (Paper 3)

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# International Baccalaureate Diploma Programme Subject Brief

Sciences:

Physics—Higher level

First assessments 2016 – Last assessments 2022

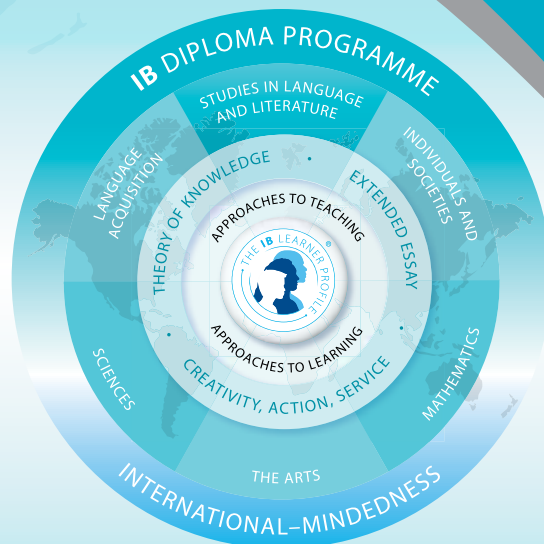
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- II. Curriculum model overview

- III. Assessment model
- IV. Sample questions



## I. Course description and aims

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5. Electricity and magnetism	15
6. Circular motion and gravitation	5
7. Atomic, nuclear and particle physics	14
8. Energy production	8

<b>Additional higher level</b>	<b>60</b>
9. Wave phenomena	17
10. Fields	11
11. Electromagnetic induction	16
12. Quantum and nuclear physics	16
<b>Option (Choice of one out of four)</b>	<b>25</b>
A. Relativity	25
B. Engineering physics	25
C. Imaging	25
D. Astrophysics	25
<b>Practical scheme of work</b>	<b>60</b>
Prescribed and other practical activities	40
Individual investigation (internally assessed)	10
Group 4 project	10

### The group 4 project

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- Apply:
  - facts, concepts, and terminology
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- Formulate, analyse and evaluate:
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Paper 1	40 multiple-choice questions	1	20
Paper 2	Short answer and extended response questions (Core and AHL)	2.25	36
Paper 3	Data- and practical-based questions plus, short answer and extended response questions on the option	1.25	24
Internal		10	20
Individual investigation	Investigation and write-up of 6 to 12 pages	10	20

### IV. Sample questions

- Why is wave-particle duality used in describing the properties of light?
  - Light is both a wave and a particle
  - Both wave and particle models can explain all the properties of light
  - Different properties of light can be more clearly explained by using one of the wave or particle models
  - Scientists feel more confident when using more than one model to explain a phenomenon (Paper 1)
- The tower is 120m high with an internal diameter of 3.5m. When most of the air has been removed, the pressure in the tower is 0.96 Pa. Determine the number of molecules of air in the tower when the temperature of the air is 300 K. (Paper 2)
- The streamlines above the airfoil are closer to each other than the streamlines below the airfoil. Suggest why this implies that the speed of the air above the airfoil is greater than the speed of air below the airfoil. (Paper 3)

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# International Baccalaureate Diploma Programme Subject Brief

## Sciences: Sports, exercise and health science

First assessments: SL – 2014; HL - 2018



The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and life beyond. The DP aims to encourage students to be knowledgeable, inquiring, caring and compassionate, and to develop intercultural understanding, open-mindedness and the attitudes necessary to respect and evaluate a range of viewpoints. Approaches to teaching and learning (ATL) are deliberate strategies, skills and attitudes that permeate the teaching and learning environment. In the DP students develop skills from five ATL categories: thinking, research, social, self-management and communication.

To ensure both breadth and depth of knowledge and understanding, students must choose at least one subject from five groups: 1) their best language, 2) additional language(s), 3) social sciences, 4) sciences, and 5) mathematics. Students may choose either an arts subject from group 6, or a second subject from groups 1 to 5. At least three and not more than four subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.



These IB DP subject briefs illustrate four the following key course components

- I. Course description and aims
- II. Curriculum model overview

- III. Assessment model
- IV. Sample questions

## I. Course description and aims

Sports, exercise and health science (SEHS) is an experimental science course combining academic study with practical and investigative skills. SEHS explores the science underpinning physical performance and provides the opportunity to apply these principles. The course incorporates the disciplines of anatomy and physiology, biomechanics, psychology and nutrition. Students cover a range of core and option topics, and carry out practical (experimental) investigations in both laboratory and field settings. The course offers a deeper understanding of the issues related to sports, exercise and health in the 21st century and addresses the international dimension and ethics related to both the individual and global context.

Apart from being worthy of study in its own right, SEHS is good preparation for courses in higher or further education related to sports fitness and health, and serves as useful preparation for employment in sports and leisure industries.

Both the SL and HL have a common core syllabus, internal assessment scheme, and overlapping elements in the options studied. While the skills and activities are common to all students, HL requires additional material and topics within the options.

Through studying any of the group 4 subjects, students should become aware of how scientists work and communicate, and the variety of forms of the “scientific method” with an emphasis on a practical approach through experimental work. In this context, the aims of SEHS is for students to:

- appreciate scientific study and creativity within a global context through stimulating and challenging opportunities
- acquire a body of knowledge, methods and techniques that characterize science and technology
- apply and use a body of knowledge, methods and techniques that characterize science and technology

- develop an ability to analyse, evaluate and synthesize scientific information
- develop a critical awareness of the need for, and the value of, effective collaboration and communication during scientific activities
- develop experimental and investigative scientific skills including the use of current technologies
- develop and apply 21st century communication skills in the study of science
- become critically aware, as global citizens, of the ethical implications of using science and technology
- develop an appreciation of the possibilities and limitations of science and technology
- develop an understanding of the relationships between scientific disciplines and their influence on other areas of knowledge.

## II. Curriculum model overview

Syllabus component	Recommended teaching hours	
	SL	HL
<b>Core</b>	<b>80</b>	
• Anatomy		7
• Exercise physiology		17
• Energy systems		13
• Movement analysis		15
• Skill in sports		15
• Measurement and evaluation of human performance.		13

<b>Additional higher level (AHL)</b>		<b>50</b>
• Further anatomy		7
• The endocrine system		7
• Fatigue		6
• Friction and drag		8
• Skill acquisition and analysis		9
• Genetics and athletic performance		7
• Exercise and immunity.		6
<b>Options (Two of four)</b>	<b>30</b>	<b>50</b>
• Optimizing physiological performance		
• Psychology of sports		
• Physical activity and health		
• Nutrition for sports, exercise and health.		
<b>Practical work</b>	<b>40</b>	<b>60</b>
• Investigations	20	40
• Group 4 project	10	10
• Individual investigation (internal assessment)	10	10
<b>Total teaching hours</b>	<b>150</b>	<b>240</b>

### The group 4 project

The group 4 project is a collaborative activity where students from different group 4 subjects, within or between schools, work together. It allows for concepts and perceptions from across disciplines to be shared while appreciating the environmental, social and ethical implications of science and technology. It can be practically or theoretically based and aims to develop an understanding of the relationships between scientific disciplines and their influence on other areas of knowledge. The emphasis is on interdisciplinary cooperation and the scientific processes.

## III. Assessment model

It is the intention of this course that students are able to fulfill the following assessment objectives:

- 1. Demonstrate knowledge and understanding of:**
  - facts, concepts, and terminology
  - methodologies and techniques
  - communicating scientific information.
- 2. Apply:**
  - facts, concepts, and terminology
  - methodologies and techniques
  - methods of communicating scientific information.
- 3. Formulate, analyse and evaluate:**
  - hypotheses, research questions and predictions
  - methodologies and techniques
  - primary and secondary data
  - scientific explanations.
- 4. Demonstrate the appropriate research, experimental, and personal skills necessary to carry out insightful and ethical investigations.**

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## Assessment at a glance

Type of assessment	Format of assessment	Time (hours)		Weighting of final grade (%)	
		SL	HL	SL	HL
External		3	4.5	80	80
Paper 1	<b>SL:</b> 30 multiple choice questions on the core. <b>HL:</b> 40 multiple choice questions on the core and the AHL.	0.75	1	20	20
Paper 2	One data-based and several short answer questions  <b>SL:</b> one extended response question.  <b>HL:</b> two of four extended response questions.	1.25	2.25	35	35
Paper 3	Several short answer questions in each of the two options. <b>HL:</b> additional extended response questions.	1	1.25	25	25
<b>Internal</b>		10	10	20	20
<b>Individual investigation</b>		10	10	20	20

## IV. Sample questions

- At rest, the arterio-venous oxygen difference is approximately 5 mL of oxygen per 100 mL of blood. What happens to this figure when someone participates in moderately intense exercise?
- Outline the general characteristics that are common to muscle tissue.
- **(HL only)** outline the term talent.
- **(HL only)** explain factors that may affect progression through the stages of talent evolution for an athlete according to Bloom (1985) and Cole (1999).
- **(HL only)** outline talent transfer from gymnastics to high board diving.

# International Baccalaureate Diploma Programme Subject Brief

## Mathematics: analysis and approaches

First assessments for SL and HL—2021

The Diploma Programme (DP) is a rigorous pre-university course of study designed for students in the 16 to 19 age range. It is a broad-based two-year course that aims to encourage students to be knowledgeable and inquiring, but also caring and compassionate. There is a strong emphasis on encouraging students to develop intercultural understanding, open-mindedness, and the attitudes necessary for them to respect and evaluate a range of points of view.

The course is presented as six academic areas enclosing a central core. Students study two modern languages (or a modern language and a classical language), a humanities or social science subject, an experimental science, mathematics and one of the creative arts. Instead of an arts subject, students can choose two subjects from another area. It is this comprehensive range of subjects that makes the Diploma Programme a demanding course of study designed to prepare students effectively for university entrance. In each of the academic areas students have flexibility in making their choices, which means they can choose subjects that particularly interest them and that they may wish to study further at university.

Normally, three subjects (and not more than four) are taken at higher level (HL), and the others are taken at standard level (SL). The IB recommends 240 teaching hours for HL subjects and 150 hours for SL. Subjects at HL are studied in greater depth and breadth than at SL. In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.

This IB DP subject brief has three key components:

I. Course description and aims

II. Curriculum model overview

III. Assessment model



## I. Course description and aims

Individual students have different needs, aspirations, interests and abilities. For this reason there are two different DP subjects in mathematics, Mathematics: analysis and approaches and Mathematics: applications and interpretation. Each course is designed to meet the needs of a particular group of students. Both courses are offered at SL and HL.

The IB DP Mathematics: analysis and approaches course recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. The focus is on developing important mathematical concepts in a comprehensible, coherent and rigorous way, achieved by a carefully balanced approach. Students are encouraged to apply their mathematical knowledge to solve abstract problems as well as those set in a variety of meaningful contexts. Mathematics: analysis and approaches has a strong emphasis on the ability to construct, communicate and justify correct mathematical arguments. Students should expect to develop insight into mathematical form and structure, and should be intellectually equipped to appreciate the links between concepts in different topic areas. Students are also encouraged to develop the skills needed to continue their mathematical growth in other learning environments. The internally assessed exploration allows students to develop independence in mathematical learning. Throughout the course students are encouraged to take a considered approach to various mathematical activities and to explore different mathematical ideas.

The aims of all DP mathematics courses are to enable students to:

- develop a curiosity and enjoyment of mathematics, and appreciate its elegance and power
- develop an understanding of the concepts, principles and nature of mathematics
- communicate mathematics clearly, concisely and confidently in a variety of contexts
- develop logical and creative thinking, and patience and persistence in problem solving to instil confidence in using mathematics
- employ and refine their powers of abstraction and generalization
- take action to apply and transfer skills to alternative situations, to other areas of knowledge and to future developments in their local and global communities
- appreciate how developments in technology and mathematics influence each other
- appreciate the moral, social and ethical questions arising from the work of mathematicians and the applications of mathematics
- appreciate the universality of mathematics and its multicultural, international and historical perspectives
- appreciate the contribution of mathematics to other disciplines, and as a particular “area of knowledge” in the TOK course
- develop the ability to reflect critically upon their own work and the work of others
- independently and collaboratively extend their understanding of mathematics.

## II. Curriculum model overview

Mathematics: analysis and approaches and Mathematics: applications and interpretation share 60 hours of common SL content.

Syllabus component	Recommended teaching hours	
	SL	HL
<ul style="list-style-type: none"> <li>Number and algebra</li> <li>Functions</li> <li>Geometry and trigonometry</li> <li>Statistics and probability</li> <li>Calculus</li> </ul>	19	39
Development of investigational, problem-solving and modelling skills and the exploration of an area of mathematics	30	30
<b>Total teaching hours</b>	150	240

## III. Assessment model

Problem-solving is central to learning mathematics and involves the acquisition of mathematical skills and concepts in a wide range of situations, including non-routine, open-ended and real-world problems.

The assessment objectives are common to Mathematics: analysis and approaches and to Mathematics: applications and interpretation.

- **Knowledge and understanding:** Recall, select and use their knowledge of mathematical facts, concepts and techniques in a variety of familiar and unfamiliar contexts.
- **Problem solving:** Recall, select and use their knowledge of mathematical skills, results and models in both abstract and real-world contexts to solve problems.
- **Communication and interpretation:** Transform common realistic contexts into mathematics; comment on the context; sketch or draw mathematical diagrams, graphs or constructions both on paper and using technology; record methods, solutions and conclusions using standardized notation; use appropriate notation and terminology.
- **Technology:** Use technology accurately, appropriately and efficiently both to explore new ideas and to solve problems.
- **Reasoning:** Construct mathematical arguments through use of precise statements, logical deduction and inference and by the manipulation of mathematical expressions.
- **Inquiry approaches:** Investigate unfamiliar situations, both abstract and from the real world, involving organizing and analyzing information, making conjectures, drawing conclusions, and testing their validity.

The exploration is an integral part of the course and its assessment, and is compulsory for both SL and HL students. It enables students to demonstrate the application of their skills and knowledge, and to pursue their personal interests, without the time limitations and other constraints that are associated with written examinations.

## Assessment at a glance

Type of assessment	Format of assessment	Time (hours)		Weighting of final grade (%)	
		SL	HL	SL	HL
<b>External</b>					
Paper 1	No technology allowed. <b>Section A:</b> compulsory short-response questions based on the syllabus. <b>Section B:</b> compulsory extended-response questions based on the syllabus.	1.5	2	40	30
Paper 2	Technology allowed. <b>Section A:</b> compulsory short-response questions based on the syllabus. <b>Section B:</b> compulsory extended-response questions based on the syllabus.	1.5	2	40	30
Paper 3	Technology allowed. Two compulsory extended-response problem-solving questions.		1		20
<b>Internal</b>					
Exploration		15	15	20	20

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# International Baccalaureate Diploma Programme Subject Brief

## Mathematics: applications and interpretation

First assessments for SL and HL—2021

The Diploma Programme (DP) is a rigorous pre-university course of study designed for students in the 16 to 19 age range. It is a broad-based two-year course that aims to encourage students to be knowledgeable and inquiring, but also caring and compassionate. There is a strong emphasis on encouraging students to develop intercultural understanding, open-mindedness, and the attitudes necessary for them to respect and evaluate a range of points of view.

The course is presented as six academic areas enclosing a central core. Students study two modern languages (or a modern language and a classical language), a humanities or social science subject, an experimental science, mathematics and one of the creative arts. Instead of an arts subject, students can choose two subjects from another area. It is this comprehensive range of subjects that makes the Diploma Programme a demanding course of study designed to prepare students effectively for university entrance. In each of the academic areas students have flexibility in making their choices, which means they can choose subjects that particularly interest them and that they may wish to study further at university.

Normally, three subjects (and not more than four) are taken at higher level (HL), and the others are taken at standard level (SL). The IB recommends 240 teaching hours for HL subjects and 150 hours for SL. Subjects at HL are studied in greater depth and breadth than at SL. In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.

This IB DP subject brief has three key components:

- I. Course description and aims
- II. Curriculum model overview
- III. Assessment model



## I. Course description and aims

Individual students have different needs, aspirations, interests and abilities. For this reason there are two different DP subjects in mathematics, Mathematics: analysis and approaches and Mathematics: applications and interpretation. Each course is designed to meet the needs of a particular group of students. Both courses are offered at SL and HL.

The IB DP Mathematics: applications and interpretation course recognizes the increasing role that mathematics and technology play in a diverse range of fields in a data-rich world. As such, it emphasizes the meaning of mathematics in context by focusing on topics that are often used as applications or in mathematical modelling. To give this understanding a firm base, this course includes topics that are traditionally part of a pre-university mathematics course such as calculus and statistics. Students are encouraged to solve real-world problems, construct and communicate this mathematically and interpret the conclusions or generalizations.

Students should expect to develop strong technology skills, and will be intellectually equipped to appreciate the links between the theoretical and the practical concepts in mathematics. All external assessments involve the use of technology. Students are also encouraged to develop the skills needed to continue their mathematical growth in other learning environments.

The internally assessed exploration allows students to develop independence in mathematical learning. Throughout the course students are encouraged to take a considered approach to various mathematical activities and to explore different mathematical ideas.

The aims of all DP mathematics courses are to enable students to:

- develop a curiosity and enjoyment of mathematics, and appreciate its elegance and power
- develop an understanding of the concepts, principles and nature of mathematics
- communicate mathematics clearly, concisely and confidently in a variety of contexts
- develop logical and creative thinking, and patience and persistence in problem solving to instil confidence in using mathematics
- employ and refine their powers of abstraction and generalization
- take action to apply and transfer skills to alternative situations, to other areas of knowledge and to future developments in their local and global communities
- appreciate how developments in technology and mathematics influence each other
- appreciate the moral, social and ethical questions arising from the work of mathematicians and the applications of mathematics
- appreciate the universality of mathematics and its multicultural, international and historical perspectives
- appreciate the contribution of mathematics to other disciplines, and as a particular “area of knowledge” in the TOK course
- develop the ability to reflect critically upon their own work and the work of others
- independently and collaboratively extend their understanding of mathematics.

## II. Curriculum model overview

Mathematics: applications and interpretation and Mathematics: analysis and approaches share 60 hours of common content.

Syllabus component	Recommended teaching hours	
	SL	HL
<ul style="list-style-type: none"> <li>Number and algebra</li> <li>Functions</li> <li>Geometry and trigonometry</li> <li>Statistics and probability</li> <li>Calculus</li> </ul>	16 31 18 36 19	29 42 46 52 41
Development of investigational, problem-solving and modelling skills and the exploration of an area of mathematics	30	30
<b>Total teaching hours</b>	150	240

## III. Assessment model

Problem-solving is central to learning mathematics and involves the acquisition of mathematical skills and concepts in a wide range of situations, including non-routine, open-ended and real-world problems.

The assessment objectives are common to Mathematics: applications and interpretation and to Mathematics: analysis and approaches.

- **Knowledge and understanding:** Recall, select and use their knowledge of mathematical facts, concepts and techniques in a variety of familiar and unfamiliar contexts.
- **Problem solving:** Recall, select and use their knowledge of mathematical skills, results and models in both abstract and real-world contexts to solve problems.
- **Communication and interpretation:** Transform common realistic contexts into mathematics; comment on the context; sketch or draw mathematical diagrams, graphs or constructions both on paper and using technology; record methods, solutions and conclusions using standardized notation; use appropriate notation and terminology.
- **Technology:** Use technology accurately, appropriately and efficiently both to explore new ideas and to solve problems.
- **Reasoning:** Construct mathematical arguments through use of precise statements, logical deduction and inference and by the manipulation of mathematical expressions.
- **Inquiry approaches:** Investigate unfamiliar situations, both abstract and from the real world, involving organizing and analyzing information, making conjectures, drawing conclusions, and testing their validity.

The exploration is an integral part of the course and its assessment, and is compulsory for both SL and HL students. It enables students to demonstrate the application of their skills and knowledge, and to pursue their personal interests, without the time limitations and other constraints that are associated with written examinations.

## Assessment at a glance

Type of assessment	Format of assessment	Time (hours)		Weighting of final grade (%)	
		SL	HL	SL	HL
<b>External</b>					
Paper 1	Technology allowed. Compulsory short-response questions based on the syllabus.	1.5	2	40	30
Paper 2	Technology allowed. Compulsory extended-response questions based on the syllabus.	1.5	2	40	30
Paper 3	Technology allowed. Two compulsory extended-response problem-solving questions.		1		20
<b>Internal</b>					
Exploration		15	15	20	20

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# International Baccalaureate Diploma Programme Subject Brief

## The Arts: Film

First assessments 2019



The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and life beyond. The DP aims to encourage students to be knowledgeable, inquiring, caring and compassionate, and to develop intercultural understanding, open-mindedness and the attitudes necessary to respect and evaluate a range of viewpoints. Approaches to teaching and learning (ATL) are deliberate strategies, skills and attitudes that permeate the teaching and learning environment. In the DP students develop skills from five ATL categories: thinking, research, social, self-management and communication.

To ensure both breadth and depth of knowledge and understanding, students must choose at least one subject from five groups: 1) their best language, 2) additional language(s), 3) social sciences, 4) sciences, and 5) mathematics. Students may choose either an arts subject from group 6, or a second subject from groups 1 to 5. At least three and not more than four subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, activity, service—are compulsory and central to the philosophy of the programme.

These IB DP subject briefs illustrate the following key course components

- I. Course description and aims
- II. Curriculum model overview
- III. Assessment model



## I. Course description and aims

The DP film course aims to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and practical exercises in film production, students develop critical abilities and appreciation of artistic, cultural, historical and global perspectives in film. They examine concepts, theories, practices and ideas from multiple perspectives, challenging their own views to understand and value those of others. Students are challenged to acquire and develop critical thinking, reflective analysis and the imaginative synthesis through practical engagement in the art, craft and study of film.

Students experiment with film and multimedia technology, acquiring the skills and creative competencies required to successfully communicate through the language of the medium. They develop an artistic voice and learn how to express personal perspectives through film. The course emphasizes the importance of working collaboratively, international and intercultural dynamics, and an appreciation of the development of film across time and culture.

The film syllabus allows for greater breadth and depth in teaching and learning at HL through an additional assessment task, requiring HL students to reflect on the core syllabus areas to formulate their own intentions for a completed film. They work collaboratively as a core production team in order to effectively communicate on screen.

The aims of the Film course are to enable students to:

- explore the various contexts of film and make links to, and between, films, filmmakers and filmmaking techniques (**inquiry**)
- acquire and apply skills as discerning interpreters of film and as creators of film, working both individually and collaboratively (**action**)

- develop evaluative and critical perspectives on their own film work and the work of others (**reflection**).

## II. Curriculum model overview

Syllabus component	Teaching hours	
	SL	HL
<b>Reading film</b> Examine film as an art form, studying a broad range of film texts from a variety of <b>cultural contexts</b> and analysing how <b>film elements</b> combine to create meaning.	45	45
<b>Contextualizing film</b> Explore the evolution of film across time and culture. Examine various areas of <b>film focus</b> in order to recognize the similarities and differences that exist between films from contrasting <b>cultural contexts</b> .	45	45
<b>Exploring film production roles</b> Explore various <b>film production roles</b> through engagement with all phases of the filmmaking process. Acquire, develop and apply skills through filmmaking exercises, experiments and completed films.	60	60
<b>HL only: Collaboratively producing film</b> Focus on the collaborative aspects of filmmaking and experience working in <b>core production teams</b> to fulfill shared artistic intentions. Work in chosen <b>film production roles</b> and contribute to all phases of the filmmaking process to collaboratively create original completed films.		90
<b>Total teaching hours</b>	150	240

### III. Assessment model

It is expected that by the end of the film course, students at SL or HL will be able to demonstrate the following.

#### 1. Knowledge and understanding of specified contexts and processes

- Identify the film elements associated with conveying meaning in a variety of film texts.
- Formulate personal intentions for work, which arise from both research and artistic endeavour.
- Identify informative moments and examples from their own filmmaking work to support analysis.
- Present ideas, discoveries and learning that arise from both research and practical engagement with films, filmmakers and techniques.

#### 2. Application and analysis of knowledge and understanding

- Analyse film from various cultural contexts and explain links between areas of film focus and film elements employed by filmmakers.
- Demonstrate knowledge and understanding of films, filmmakers and their various cultural contexts in order to influence, inform and impact the creation of film work.
- Explore and experiment with a variety of film-production roles in order to understand the associated skills, techniques and processes employed by filmmakers.

#### 3. Synthesis and evaluation

- Critically interpret various sources of information in order to support analysis.
- Compare and contrast filmmakers, their films and their various cultural contexts in order to further the understanding of particular areas of film focus.
- Evaluate films created by themselves and others and articulate an informed personal response using appropriate cinematic language and vocabulary.
- Reflect on the process of collaboration and on the successes and challenges encountered as a member of a core production team.

#### 4. Select, use and apply a variety of appropriate skills and techniques

- Make appropriate choices in the selection of words, images, sounds and techniques when assembling their own work for presentation.
- Experiment in a variety of film-production roles in order to produce film work that conveys meaning on screen.
- Collaborate effectively with others in the creation of film work.

### Assessment at a glance

Type of assessment	Format of assessment	Weighting of final grade (%)	
		SL	HL
External		60	40
Textual analysis	Textual analysis (max 1,750 words) of a prescribed film text based on a chosen extract (max 5 mins), and list of sources.	30	20
Comparative study	Recorded multimedia comparative study (max 10 mins), and list of sources.	30	20
Internal		40	60
Film portfolio	Portfolio pages (max 9 pages: 3 pages per production role) and list of sources. A film reel (max 9 mins: 3 mins per production role, including 1 completed film).	40	25
Collaborative film project (HL only)	Completed film (max 7 mins). Project report (max 2,000 words) and list of sources.		35

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The IB Diploma Programme, for students aged 16 to 19, is an academically challenging and balanced programme of education that prepares students for success at university and life beyond. Students take courses in six different subject groups, maintaining both breadth and depth of study. Music standard level is in group 6, the arts. In addition, three core elements—the extended essay, theory of knowledge and creativity, action, service—are compulsory and central to the philosophy of the programme.

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The IB subject briefs illustrate four key course components in the IB Diploma Programme.

- I. Course description and aims
- II. Curriculum model overview
- III. Assessment model
- IV. Sample questions

## Overview of the music standard level course and curriculum model

### I. Course description and aims

The IB Diploma Programme standard level music course seeks to develop students' knowledge and potential as musicians, both personally and collaboratively. IB Diploma Programme music students are required to study musical perception and actively listen to a wide range of music from different parts of the world, musical cultures and time periods. They also develop aural perception and understanding of music by learning about musical elements, including form and structure, notations, musical terminology and context. Through the course of study, students become aware of how musicians work and communicate. In addition, the course enables students to:

- enjoy lifelong engagement with the arts
- become informed, reflective and critical practitioners in the arts
- understand the dynamic and changing nature of the arts
- explore and value the diversity of the arts across time, place and cultures
- express ideas with confidence and competence
- develop perceptual and analytical skills
- develop their knowledge and potential as musicians, both personally and collaboratively.

### II. Curriculum model overview

#### Music standard level

Components		
Core	Musical perception	75 hours
Options	Students choose one of the three options <ul style="list-style-type: none"> <li>• Creating</li> <li>• Solo performing</li> <li>• Group performing</li> </ul>	75 hours
<b>Total teaching hours</b>		<b>150 hours</b>

### III. Assessment model

#### Assessment for music standard level

The IB assesses student work as direct evidence of achievement against the stated goals of the Diploma Programme courses, which are to provide students with:

- a broad and balanced, yet academically demanding, programme of study
- the development of critical-thinking and reflective skills
- the development of research skills
- the development of independent learning skills
- the development of intercultural understanding
- a globally recognized university entrance qualification.

The assessments aim to test all students' knowledge and understanding of key concepts through various activities that demonstrate:

- knowledge, understanding and perception of music in relation to time, place and cultures
- appropriate musical terminology to describe and reflect their critical understanding of music
- comparative analysis of music in relation to time, place and cultures.
- creative skills through exploration, control and development of musical elements
- performance skills through solo or group music making
- critical-thinking skills through reflective thought.

Students' success in the music standard level course is measured by combining their grades on external and internal assessment.

## Assessment for music standard level (continued)

Throughout the teaching of the course students should be encouraged to develop critical thinking and participate in inquiry-based learning, while working both individually and collaboratively.

The listening paper is based on musical perception, reflected through analysis and examination of pieces of music. Section A relates to two prescribed works, of which students study one. Section B relates to music from different times and places, encompassing jazz/pop, western art music and world music.

In the musical links investigation, through the study of pieces from two distinct musical cultures, students are encouraged to explore, analyse and examine the musical connections existing between two (or more) pieces of music. Through investigative study and analysis of the similarities and differences between the selected pieces of music, students learn to demonstrate significant musical links.

For the creating option, students create two 3- to 6-minute pieces, choosing from a wide range of styles and media, including traditional instruments, voices and/or music technology, and reflect on their understanding of the intention, process and outcome of the pieces

For the solo performing option, students must submit a programme of contrasting pieces in any style of music that is 15 minutes in length.

For the group performing option, a submission is made for students in the group of pieces selected from two or more public performances that is 20–30 minutes in length.

Assessment criteria are used to assess students' achievement in music. These criteria are related to the assessment objectives established for the music course and to the group 6 grade descriptors.

## Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
<b>External</b>			<b>50</b>
<i>Listening Paper</i>	Four musical perception questions	2	30
<i>Musical links investigation</i>	A written media script of 2,000 words or less, investigating the significant musical links between two or more pieces from distinct musical cultures		20
<b>Internal</b>			<b>50</b>
<i>Creating or performing</i>	Students choose one of the three options. <b>Creating:</b> Two pieces of coursework with recordings and written work <b>Solo performing:</b> A recording selected from pieces presented during one or more public performances <b>Group performing:</b> A recording selected from pieces presented during two or more public performances		

## IV. Sample questions

The following questions appeared in previous IB Diploma Programme music standard level examinations.\*

### Listening paper section A

Sample: *El Salón México* by A Copland

Demonstrate the rhythmic sophistication found in Copland's *El Salón México* by discussing **at least four** elements/features in the passage between rehearsal numbers 11–27 (bar/measure 103–267).

\* the syllabus for examinations current until 2019

### Listening paper section B

Sample: *First movement* from *Symphony No 1, Op 25*

“*Classical*” by S Prokofiev (score provided)

With clear reference to the score provided, analyse, examine and discuss in detail what you hear in this extract.

Sample: Unidentified Piece (no score provided)

Analyse, examine and discuss in detail what you hear in this extract.

Learn more about how the IB Diploma Programme prepares students for success at university by going online to [www.ibo.org/universities](http://www.ibo.org/universities) or email us at [recognition@ibo.org](mailto:recognition@ibo.org).

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The IB Diploma Programme, for students aged 16 to 19, is an academically challenging and balanced programme of education that prepares students for success at university and life beyond. Students take courses in six different subject groups, maintaining both breadth and depth of study. Music higher level is in group 6, the arts. In addition, three core elements—the extended essay, theory of knowledge and creativity, action, service—are compulsory and central to the philosophy of the programme.

**About the IB:** For over 40 years the IB has built a reputation for high-quality, challenging programmes of education that develop internationally minded young people who are well prepared for the challenges of life in the 21st century and able to contribute to creating a better, more peaceful world.

The IB subject briefs illustrate key course components in the IB Diploma Programme.

- I. Course description and aims
- II. Curriculum model overview
- III. Assessment model
- IV. Sample questions

## Overview of the music higher level course and curriculum model

### I. Course description and aims

The IB Diploma Programme higher level music course seeks to develop students' knowledge and potential as musicians, both personally and collaboratively. IB Diploma Programme music students are required to study musical perception and actively listen to a wide range of music from different parts of the world, musical cultures and time periods. They also develop aural perception and understanding of music by learning about musical elements, including form and structure, notations, musical terminology, and context. Through the course of study, students become aware of how musicians work and communicate. In addition, the course enables students to:

- enjoy lifelong engagement with the arts
- become informed, reflective and critical practitioners in the arts
- understand the dynamic and changing nature of the arts
- explore and value the diversity of the arts across time, place and cultures
- express ideas with confidence and competence
- develop perceptual and analytical skills
- develop their knowledge and potential as musicians, both personally and collaboratively.

### II. Curriculum model overview

#### Music higher level

Components	
<i>Musical perception</i>	90 hours
<i>Creating</i>	75 hours
<i>Solo performing</i>	75 hours
<b>Total teaching hours</b>	<b>240 hours</b>

### III. Assessment model

#### Assessment for music higher level

The IB assesses student work as direct evidence of achievement against the stated goals of the Diploma Programme courses, which are to provide students with:

- a broad and balanced, yet academically demanding, programme of study
- the development of critical-thinking and reflective skills
- the development of research skills
- the development of independent learning skills
- the development of intercultural understanding
- a globally recognized university entrance qualification.

The assessments aim to test all students' knowledge and understanding of key concepts through various activities that demonstrate:

- knowledge, understanding and perception of music in relation to time, place and cultures
- appropriate musical terminology to describe and reflect their critical understanding of music
- comparative analysis of music in relation to time, place and cultures
- creative skills through exploration, control and development of musical elements
- performance skills through solo music making
- critical-thinking skills through reflective thought.

Students' success in the music higher level course is measured by combining their grades in external and internal assessment.

Throughout the teaching of the course students should be encouraged to develop critical thinking and participate in inquiry-based learning, while working both individually and collaboratively.

## Assessment for music higher level (continued)

The listening paper is based on musical perception—analysis, examination, comparing and contrasting of pieces of music. Section A relates to two prescribed works and section B to music from different times and places, encompassing jazz/pop, western art music and world music.

In the musical links investigation, through the study of pieces from two distinct musical cultures, students are encouraged to explore, analyse and examine the musical connections existing between two (or more) pieces of music. Through investigative study and analysis of the similarities and differences between the selected pieces of music, students learn to demonstrate significant musical links.

In creating, students create three pieces of 3 to 6 minutes in length choosing from a wide range of styles and media, including traditional instruments, voices and/or music technology, and reflect on their understanding of the intention, process and outcome of the pieces.

In the performing component, students must submit a programme of contrasting pieces in any style of music that is 20 minutes in length.

Assessment criteria are used to assess students' achievement in music. These criteria are related to the assessment objectives established for the music course and to the group 6 grade descriptors.

## Assessment at a glance

Type of assessment	Format of assessment	Time (hours)	Weighting of final grade (%)
<b>External</b>			<b>50</b>
<i>Listening paper</i>	Five musical perception questions	2.5	30
<i>Musical links investigation</i>	A written media script of 2,000 words or less, investigating the significant musical links between two or more pieces from distinct musical cultures		20
<b>Internal</b>			<b>50</b>
<i>Creating and performing</i>	<b>Creating:</b> three pieces of coursework with recordings and written work		25
	<b>Solo performing:</b> A recording selected from pieces presented during one or more public performances		25

## IV. Sample questions

The following questions appeared in previous IB Diploma Programme music higher level examinations.\*

### Listening paper section A

Sample: *Symphony No 41 in C Major, K. 551 "Jupiter"* by W A Mozart and *El Salón México* by A Copland  
Through the link of thematic development, compare Copland's *El Salón México* to any one movement (with exception of the fourth movement) of Mozart's *"Jupiter" Symphony*.

### Listening paper section B

Sample: *First movement* from *Symphony No 1, Op 25 "Classical"* by S Prokofiev (score provided)  
With clear reference to the score provided, analyse, examine and discuss in detail what you hear in this extract.

Sample: Unidentified Piece (no score provided)  
Analyse, examine and discuss in detail what you hear in this extract.

\* the syllabus for examinations current until 2019

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# International Baccalaureate Diploma Programme Subject Brief

## The arts:

### Theatre—Standard level

First assessments 2016 – Last assessments 2022

The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and life beyond. The DP aims to encourage students to be knowledgeable, inquiring, caring and compassionate, and to develop intercultural understanding, open-mindedness and the attitudes necessary to respect and evaluate a range of viewpoints. Approaches to teaching and learning (ATL) within the DP are deliberate strategies, skills and attitudes that permeate the teaching and learning environment. In the DP students develop skills from five ATL categories: thinking, research, social, self-management and communication.

To ensure both breadth and depth of knowledge and understanding, students must choose at least one subject from five groups: 1) their best language, 2) additional language(s), 3) social sciences, 4) experimental sciences, and 5) mathematics. Students may choose either an arts subject from group 6, or a second subject from groups 1 to 5. At least three and not more than four subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, action, service—are compulsory and central to the philosophy of the programme.

These IB DP subject briefs illustrate three key course components.

- I. Course description and aims
- II. Curriculum model overview
- III. Assessment model



## I. Course description and aims

Theatre is a practical subject that encourages discovery through experimentation, risk-taking and the presentation of ideas. The IB DP theatre course is multifaceted and gives students the opportunity to actively engage in theatre as creators, designers, directors and performers. It emphasizes working both individually and collaboratively as part of an ensemble. The teacher’s role is to create opportunities that allow students to explore, learn, discover and collaborate to become autonomous, informed and skilled theatre-makers.

Students learn to apply research and theory to inform and to contextualize their work. Through researching, creating, preparing, presenting and critically reflecting on theatre, they gain a richer understanding of themselves, their community and the world. Students experience the course from contrasting artistic and cultural perspectives. They learn about theatre from around the world, the importance of making theatre with integrity, and the impact that theatre can have on the world. It enables them to discover and engage with different forms of theatre across time, place and culture, promoting international-mindedness and an appreciation of the diversity of theatre.

The aims of all DP arts subjects are to enable students to:

1. enjoy lifelong engagement with the arts
2. become informed, reflective and critical practitioners in the arts
3. understand the dynamic and changing nature of the arts
4. explore and value the diversity of the arts across time, place and cultures
5. express ideas with confidence and competence
6. develop perceptual and analytical skills.

In addition, the aims of the SL theatre course are to enable students to:

7. explore theatre in a variety of contexts and understand how these contexts inform practice (theatre in context)
8. understand and engage in the processes of transforming ideas into action (theatre processes)
9. develop and apply theatre production, presentation and performance skills, working both independently and collaboratively (presenting theatre)

## II. Curriculum model overview

Component	Recommended teaching hours
<b>Theatre in context</b> <ul style="list-style-type: none"> <li>• Research and examine the various contexts of at least one published play text and reflect on live theatre.</li> <li>• Research and examine the various contexts of at least one world theatre tradition.</li> <li>• Reflect on personal approaches, interests and skills in theatre. Research and examine at least one starting point and the approaches employed by one appropriate professional theatre company, and consider how this might influence personal approaches.</li> </ul>	<b>50</b>

### Theatre processes

50

- Take part in the practical exploration of at least two contrasting published play texts and engage with the process of transforming a play text into action.
- Practically examine the performance conventions of at least one world theatre tradition and apply this to the staging of a moment of theatre.
- Respond to at least one starting point and engage with the process of transforming it collaboratively into an original piece of theatre.

### Presenting theatre

50

- Direct at least one scene or section from one published play text which is presented to others.
- Present a moment of theatre to others which demonstrates the performance convention(s) of at least one world theatre tradition.
- Participate in at least one production of a collaboratively created piece of original theatre, created from a starting point, which is presented to others.

From the beginning of the course, and at regular intervals, students are required to maintain a theatre journal. Although elements of the journal may be selected, adapted and presented for assessment, the journal itself is not directly assessed or moderated. It is, however, regarded as a fundamental activity of the course.

## III. Assessment model

Having followed the theatre course students are expected to:

1. Demonstrate knowledge and understanding of specified content
  - Describe the relationship between theatre and its contexts
  - Identify appropriate and valuable information from research for different specialist theatre roles
  - Present ideas, discoveries and learning, gained through research and practical exploration to others
2. Demonstrate application and analysis of knowledge and understanding
  - Explain the relationship and significance of the integration of production, performance and research elements
  - Explore and demonstrate different ways through which ideas can be presented and transformed into action
  - Explain what has informed, influenced and had impact on their work

3. Demonstrate synthesis and evaluation
  - Evaluate their work and the work of others
  - Discuss and justify choices
  - Examine the impact their work has had on others
4. Select, use and apply a variety of appropriate skills and techniques
  - Demonstrate appropriate skills and techniques in the creation and presentation of theatre in different specialist theatre roles
  - Demonstrate organization of material including use and attribution of sources
  - Demonstrate the ability to select, edit and present work appropriately

## Assessment at a glance

Type of assessment	Format of assessment	Weighting of final grade (%)
External		65
Director's notebook	Develop ideas regarding how a play text could be staged for an audience.	35
Research presentation	Deliver an individual presentation (15 minutes maximum) that outlines and physically demonstrates research into a convention of a theatre tradition.	30
Internal		35
Collaborative project	Collaboratively create and present an original piece of theatre (lasting 13–15 minutes) for and to a specified target audience.	35

The theatre course is structured for the assessment tasks to be ongoing with skills being developed throughout the course and the material for assessment developed throughout the latter part of the course.

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For further information on the IB Diploma Programme, and a complete list of DP subject briefs, visit: <http://www.ibo.org/diploma/>.

Complete subject guides can be accessed through the IB online curriculum centre (OCC) or purchased through the IB store: <http://store.ibo.org>.

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# International Baccalaureate Diploma Programme Subject Brief

## The arts:

### Theatre—Higher level

First assessments 2016 – Last assessments 2022

The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and life beyond. The DP aims to encourage students to be knowledgeable, inquiring, caring and compassionate, and to develop intercultural understanding, open-mindedness and the attitudes necessary to respect and evaluate a range of viewpoints. Approaches to teaching and learning (ATL) within the DP are deliberate strategies, skills and attitudes that permeate the teaching and learning environment. Students develop skills from five ATL categories: thinking, research, social, self-management and communication.

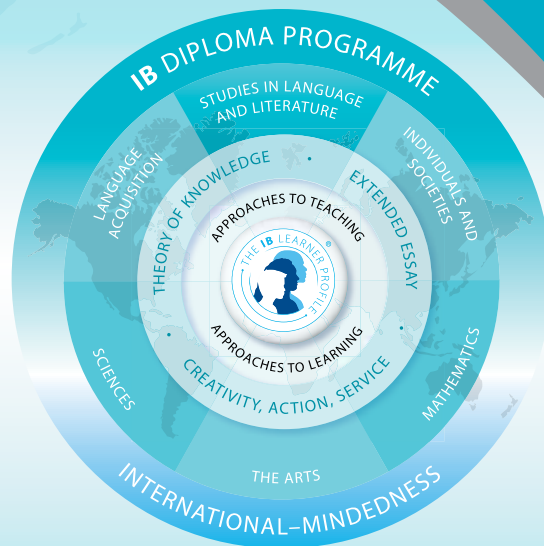
To ensure both breadth and depth of knowledge and understanding, students must choose at least one subject from five groups: 1) their best language, 2) additional language(s), 3) social sciences, 4) experimental sciences, and 5) mathematics. Students may choose either an arts subject from group 6, or a second subject from groups 1 to 5. At least three and not more than four subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, action, service—are compulsory and central to the philosophy of the programme.

These IB DP subject briefs illustrate three key course components.

I. Course description and aims

II. Curriculum model overview

III. Assessment model



## I. Course description and aims

Theatre is a practical subject that encourages discovery through experimentation, risk-taking and the presentation of ideas. The IB DP theatre course is multifaceted and gives students the opportunity to actively engage in theatre as creators, designers, directors and performers. It emphasizes working both individually and collaboratively as part of an ensemble. The teacher’s role is to create opportunities that allow students to explore, learn, discover and collaborate to become autonomous, informed and skilled theatre-makers.

Students learn to apply research and theory to inform and to contextualize their work. Through researching, creating, preparing, presenting and critically reflecting on theatre, they gain a richer understanding of themselves, their community and the world. Students experience the course from contrasting artistic and cultural perspectives. They learn about theatre from around the world, the importance of making theatre with integrity, and the impact that theatre can have on the world. It enables them to discover and engage with different forms of theatre across time, place and culture, promoting international-mindedness and an appreciation of the diversity of theatre.

The aims of all DP arts subjects are to enable students to:

1. enjoy lifelong engagement with the arts
2. become informed, reflective and critical practitioners in the arts
3. understand the dynamic and changing nature of the arts
4. explore and value the diversity of the arts across time, place and cultures
5. express ideas with confidence and competence
6. develop perceptual and analytical skills

In addition, the aims of the HL theatre course are to enable students to:

7. explore theatre in a variety of contexts and understand how these contexts inform practice (theatre in context)
8. understand and engage in the processes of transforming ideas into action (theatre processes)
9. develop and apply theatre production, presentation and performance skills, working both independently and collaboratively (presenting theatre)
10. understand and appreciate the relationship between theory and practice (theatre in context, theatre processes, presenting theatre).

## II. Curriculum model overview

Component	Recommended teaching hours
<p><b>Theatre in context</b></p> <ul style="list-style-type: none"> <li>• Research and examine the various contexts of:                             <ul style="list-style-type: none"> <li>◦ at least one theatre theorist</li> <li>◦ at least one published play text and reflect on live theatre</li> <li>◦ at least one world theatre tradition.</li> </ul> </li> <li>• Reflect on personal approaches, interests and skills in theatre. Research and examine at least one starting point and the approaches employed by an appropriate professional theatre company, and consider how this might influence personal approaches.</li> </ul>	<b>80</b>

### Theatre processes

- Explore at least one theorist and collaboratively engage in creating theatre based on their theory.
- Take part in the practical exploration of at least two contrasting published play texts and engage with the process of transforming a play text into action.
- Practically examine the performance conventions of at least one world theatre tradition and apply this to the staging of a moment of theatre.
- Respond to at least one starting point and engage with the process of transforming it collaboratively into an original piece of theatre.

80

### Presenting theatre

- Create, present and evaluate at least one theatre piece based on an aspect of a theatre theorist's work.
- Direct and present at least one scene or section from one published play text.
- Present a moment of theatre which demonstrates the performance convention(s) of at least one world theatre tradition.
- Participate in at least one production of a collaboratively created piece of original theatre, created from a starting point, which is presented to others.

80

2. Demonstrate application and analysis of knowledge and understanding
  - Explain the relationship and significance of the integration of production, performance and research elements
  - Explore and demonstrate different ways through which ideas can be presented and transformed into action
  - Explain what has informed, influenced and had impact on their work
3. Demonstrate synthesis and evaluation
  - Evaluate their work and the work of others
  - Discuss and justify choices
  - Examine the impact their work has had on others
4. Select, use and apply a variety of appropriate skills and techniques
  - Demonstrate appropriate skills and techniques in the creation and presentation of theatre in different specialist theatre roles
  - Demonstrate organization of material including use and attribution of sources
  - Demonstrate the ability to select, edit and present work appropriately

### Assessment at a glance

Type of assessment	Format of assessment	Weighting of final grade (%)
External		75
Solo theatre piece	Create and present a solo theatre piece (4–8 minutes) based on an aspect(s) of theatre theory.	35
Director's notebook	Develop ideas regarding how a play text could be staged for an audience.	20
Research presentation	Deliver an individual presentation (15 minutes maximum) that outlines and physically demonstrates research into a convention of a theatre tradition.	20
Internal		25
Collaborative project	Collaboratively create and present an original piece of theatre (lasting 13–15 minutes) for and to a specified target audience.	25

From the beginning of the course, and at regular intervals, students are required to maintain a theatre journal. Although elements of the journal may be selected, adapted and presented for assessment, the journal itself is not directly assessed or moderated. It is, however, regarded as a fundamental activity of the course.

### III. Assessment model

Having followed the theatre course students are expected to:

1. Demonstrate knowledge and understanding of specified content
  - Describe the relationship between theatre and its contexts
  - Identify appropriate and valuable information from research for different specialist theatre roles
  - Present ideas, discoveries and learning, gained through research and practical exploration to others

The theatre course is structured for the assessment tasks to be ongoing with skills being developed throughout the course and the material for assessment developed throughout the latter part of the course.

About the IB: For over 40 years the IB has built a reputation for high-quality, challenging programmes of education that develop internationally minded young people who are well prepared for the challenges of life in the 21st century and able to contribute to creating a better, more peaceful world.

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# International Baccalaureate Diploma Programme Subject Brief

## The arts:

### Visual arts—Standard level

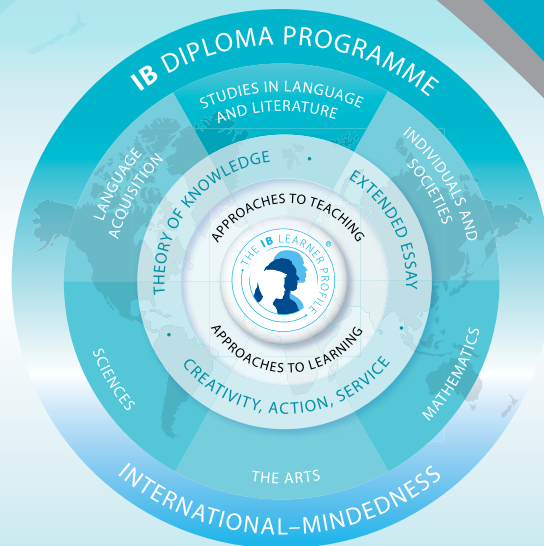
First assessments 2016 – Last assessments 2022

The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and life beyond. The DP aims to encourage students to be knowledgeable, inquiring, caring and compassionate, and to develop intercultural understanding, open-mindedness and the attitudes necessary to respect and evaluate a range of viewpoints. Approaches to teaching and learning (ATL) within the DP are deliberate strategies, skills and attitudes that permeate the teaching and learning environment. In the DP students develop skills from five ATL categories: thinking, research, social, self-management and communication.

To ensure both breadth and depth of knowledge and understanding, students must choose at least one subject from five groups: 1) their best language, 2) additional language(s), 3) social sciences, 4) experimental sciences, and 5) mathematics. Students may choose either an arts subject from group 6, or a second subject from groups 1 to 5. At least three and not more than four subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, action, service—are compulsory and central to the philosophy of the programme.

These IB DP subject briefs illustrate three key course components.

- I. Course description and aims
- II. Curriculum model overview
- III. Assessment model



## I. Course description and aims

The IB Diploma Programme visual arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. The course is designed for students who want to go on to study visual arts in higher education as well as for those who are seeking lifelong enrichment through visual arts.

The role of visual arts teachers should be to actively and carefully organize learning experiences for the students, directing their study to enable them to reach their potential and satisfy the demands of the course. Students should be empowered to become autonomous, informed and skilled visual artists.

The aims of the arts subjects are to enable students to:

1. enjoy lifelong engagement with the arts
2. become informed, reflective and critical practitioners in the arts
3. understand the dynamic and changing nature of the arts
4. explore and value the diversity of the arts across time, place and cultures
5. express ideas with confidence and competence
6. develop perceptual and analytical skills.

In addition, the aims of the visual arts course at SL and HL are to enable students to:

7. make artwork that is influenced by personal and cultural contexts
8. become informed and critical observers and makers of visual culture and media
9. develop skills, techniques and processes in order to communicate concepts and ideas.

## II. Curriculum model overview

Component	Recommended teaching hours
<b>Visual arts in context</b> <ul style="list-style-type: none"> <li>• Examine and compare the work of artists from different cultural contexts.</li> <li>• Consider the contexts influencing their own work and the work of others.</li> <li>• Make art through a process of investigation, thinking critically and experimenting with techniques.</li> <li>• Apply identified techniques to their own developing work.</li> <li>• Develop an informed response to work and exhibitions they have seen and experienced.</li> <li>• Begin to formulate personal intentions for creating and displaying their own artworks.</li> </ul>	<b>50</b>

<p><b>Visual arts methods</b></p> <ul style="list-style-type: none"> <li>• Look at different techniques for making art.</li> <li>• Investigate and compare how and why different techniques have evolved and the processes involved.</li> <li>• Experiment with diverse media and explore techniques for making art.</li> <li>• Develop concepts through processes informed by skills, techniques and media.</li> <li>• Evaluate how their ongoing work communicates meaning and purpose.</li> <li>• Consider the nature of “exhibition” and think about the process of selection and the potential impact of their work on different audiences.</li> </ul>	<b>50</b>
<p><b>Communicating visual arts</b></p> <ul style="list-style-type: none"> <li>• Explore ways of communicating through visual and written means.</li> <li>• Make artistic choices about how to most effectively communicate knowledge and understanding.</li> <li>• Produce a body of artwork through a process of reflection and evaluation, showing a synthesis of skill, media and concept.</li> <li>• Select and present resolved works for exhibition.</li> <li>• Explain the ways in which the works are connected.</li> <li>• Discuss how artistic judgments impact the overall presentation.</li> </ul>	<b>50</b>

Throughout the course students are required to maintain a visual arts journal. Although sections of the journal will be selected, adapted and presented for assessment, the journal itself is not directly assessed or moderated. It is, however, regarded as a fundamental activity of the course.

### III. Assessment model

Having followed the visual arts course, students are expected to:

1. Demonstrate knowledge and understanding of specified content
  - Identify various contexts in which the visual arts can be created and presented
  - Describe artwork from differing contexts, and identify the ideas, conventions and techniques employed by the art-makers
  - Recognize the skills, techniques, media, forms and processes associated with the visual arts
  - Present work, using appropriate visual arts language, as appropriate to intentions
2. Demonstrate application and analysis of knowledge and understanding
  - Express concepts, ideas and meaning through visual communication

- Analyse artworks from a variety of different contexts
  - Apply knowledge and understanding of skills, techniques, media, forms and processes related to art-making
3. Demonstrate synthesis and evaluation
    - Critically analyse and discuss artworks created by themselves and others and articulate an informed personal response
    - Formulate personal intentions for the planning, development and making of artworks that consider how meaning can be conveyed to an audience
    - Demonstrate the use of critical reflection to highlight success and failure in order to progress work
    - Evaluate how and why art-making evolves and justify the choices made in their own visual practice
  4. Select, use and apply a variety of appropriate skills and techniques
    - Experiment with different media, materials and techniques in art-making
    - Make appropriate choices in the selection of images, media, materials and techniques in art-making
    - Demonstrate technical proficiency in the use and application of skills, techniques, media, images, forms and processes
    - Produce a body of resolved and unresolved artworks as appropriate to intentions

### Assessment at a glance

Type of assessment	Format of assessment	Weighting of final grade (%)
External		60
Comparative study	<ul style="list-style-type: none"> <li>• 10–15 screens which examine and compare at least 3 artworks, at least 2 of which should be by different artists</li> <li>• A list of sources used</li> </ul>	20
Process portfolio	<ul style="list-style-type: none"> <li>• 9–18 screens which evidence the student’s sustained experimentation, exploration, manipulation and refinement of a variety of art-making activities</li> </ul>	40
Internal		40
Exhibition	<ul style="list-style-type: none"> <li>• A curatorial rationale that does not exceed 400 words</li> <li>• 4–7 artworks</li> <li>• Exhibition text (stating the title, medium, size and intention) for each artwork</li> </ul>	40

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# International Baccalaureate Diploma Programme Subject Brief

## The arts:

### Visual arts—Higher level

First assessments 2016 – Last assessments 2022

The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and life beyond. The DP aims to encourage students to be knowledgeable, inquiring, caring and compassionate, and to develop intercultural understanding, open-mindedness and the attitudes necessary to respect and evaluate a range of viewpoints. Approaches to teaching and learning (ATL) within the DP are deliberate strategies, skills and attitudes that permeate the teaching and learning environment. In the DP, students develop skills from five ATL categories: thinking, research, social, self-management and communication.

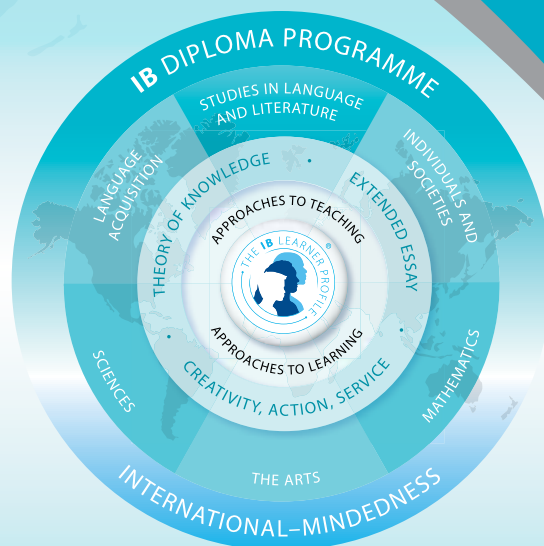
To ensure both breadth and depth of knowledge and understanding, students must choose at least one subject from five groups: 1) their best language, 2) additional language(s), 3) social sciences, 4) experimental sciences, and 5) mathematics. Students may choose either an arts subject from group 6, or a second subject from groups 1 to 5. At least three and not more than four subjects are taken at higher level (240 recommended teaching hours), while the remaining are taken at standard level (150 recommended teaching hours). In addition, three core elements—the extended essay, theory of knowledge and creativity, action, service—are compulsory and central to the philosophy of the programme.

These IB DP subject briefs illustrate three key course components.

I. Course description and aims

II. Curriculum model overview

III. Assessment model



## I. Course description and aims

The IB Diploma Programme visual arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. The course is designed for students who want to go on to further study of visual arts in higher education as well as for those who are seeking lifelong enrichment through visual arts.

The role of visual arts teachers should be to actively and carefully organize learning experiences for the students, directing their study to enable them to reach their potential and satisfy the demands of the course. Students should be empowered to become autonomous, informed and skilled visual artists.

The aims of the arts subjects are to enable students to:

1. enjoy lifelong engagement with the arts
2. become informed, reflective and critical practitioners in the arts
3. understand the dynamic and changing nature of the arts
4. explore and value the diversity of the arts across time, place and cultures
5. express ideas with confidence and competence
6. develop perceptual and analytical skills.

In addition, the aims of the visual arts course at SL and HL are to enable students to:

7. make artwork that is influenced by personal and cultural contexts
8. become informed and critical observers and makers of visual culture and media
9. develop skills, techniques and processes in order to communicate concepts and ideas.

## II. Curriculum model overview

Component	Recommended teaching hours
<p><b>Visual arts in context</b></p> <ul style="list-style-type: none"> <li>• Examine and compare the work of artists from different cultural contexts.</li> <li>• Consider the contexts influencing their own work and the work of others.</li> <li>• Make art through a process of investigation, thinking critically and experimenting with techniques.</li> <li>• Apply identified techniques to their own developing work.</li> <li>• Develop an informed response to work and exhibitions they have seen and experienced.</li> <li>• Begin to formulate personal intentions for creating and displaying their own artworks.</li> </ul>	<b>80</b>

<p><b>Visual arts methods</b></p> <ul style="list-style-type: none"> <li>• Look at different techniques for making art.</li> <li>• Investigate and compare how and why different techniques have evolved and the processes involved.</li> <li>• Experiment with diverse media and explore techniques for making art.</li> <li>• Develop concepts through processes informed by skills, techniques and media.</li> <li>• Evaluate how their ongoing work communicates meaning and purpose.</li> <li>• Consider the nature of “exhibition”, and think about the process of selection and the potential impact of their work on different audiences.</li> </ul>	<b>80</b>
<p><b>Communicating visual arts</b></p> <ul style="list-style-type: none"> <li>• Explore ways of communicating through visual and written means.</li> <li>• Make artistic choices about how to most effectively communicate knowledge and understanding.</li> <li>• Produce a body of artwork through a process of reflection and evaluation, showing a synthesis of skill, media and concept.</li> <li>• Select and present resolved works for exhibition.</li> <li>• Explain the ways in which the works are connected.</li> <li>• Discuss how artistic judgments impact the overall presentation.</li> </ul>	<b>80</b>

- Analyse artworks from a variety of different contexts
  - Apply knowledge and understanding of skills, techniques, media, forms and processes related to art-making
3. Demonstrate synthesis and evaluation
    - Critically analyse and discuss artworks created by themselves and others and articulate an informed personal response
    - Formulate personal intentions for the planning, development and making of artworks that consider how meaning can be conveyed to an audience
    - Demonstrate the use of critical reflection to highlight success and failure in order to progress work
    - Evaluate how and why art-making evolves and justify the choices made in their own visual practice
  4. Select, use and apply a variety of appropriate skills and techniques
    - Experiment with different media, materials and techniques in art-making
    - Make appropriate choices in the selection of images, media, materials and techniques in art-making
    - Demonstrate technical proficiency in the use and application of skills, techniques, media, images, forms and processes
    - Produce a body of resolved and unresolved artworks as appropriate to intentions

### Assessment at a glance

Type of assessment	Format of assessment	Weighting of final grade (%)
External		60
Comparative study	<ul style="list-style-type: none"> <li>• 10–15 screens which examine and compare at least 3 artworks, at least 2 of which need to be by different artists</li> <li>• 3–5 screens which analyse the extent to which the student’s work and practices have been influenced by the art and artists examined</li> <li>• A list of sources used</li> </ul>	20
Process portfolio	<ul style="list-style-type: none"> <li>• 13–25 screens which evidence sustained experimentation, exploration, manipulation and refinement of a variety of art-making activities</li> </ul>	40
Internal		40
Exhibition	<ul style="list-style-type: none"> <li>• A curatorial rationale that does not exceed 700 words</li> <li>• 8–11 artworks</li> <li>• Exhibition text (stating the title, medium, size and intention) for each artwork</li> </ul>	40

Throughout the course students are required to maintain a visual arts journal. Although sections of the journal will be selected, adapted and presented for assessment, the journal itself is not directly assessed or moderated. It is, however, regarded as a fundamental activity of the course.

### III. Assessment model

Having followed the visual arts course, students are expected to:

1. Demonstrate knowledge and understanding of specified content
  - Identify various contexts in which the visual arts can be created and presented
  - Describe artwork from differing contexts, and identify the ideas, conventions and techniques employed by the art-makers
  - Recognize the skills, techniques, media, forms and processes associated with the visual arts
  - Present work, using appropriate visual arts language, as appropriate to intentions
2. Demonstrate application and analysis of knowledge and understanding
  - Express concepts, ideas and meaning through visual communication

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**CC21**



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**Bus stop 19089/19071** 14, 33, 74, 166, 196



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We discourage parking on Dover Road and Medway Park as the LTA makes regular checks.

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