



Curriculum Synopses

Year 10 Term 1



THE BRITISH INTERNATIONAL SCHOOL
ABU DHABI
A NORD ANGLIA EDUCATION SCHOOL

Academic Team

The Academic Team lead a team of teachers in each of their curriculum areas focused on delivering the highest level of teaching and learning for students. We are always happy to hear from parents to help support students further in lessons and with home study.



Ms. Sara Brazier
Head of English
sara.brazier@bisad.ae



Mr. Stephen Starost
Head of Mathematics
stephen.starost@bisad.ae



Mr. Oliver Lewis
Head of Science
oliver.lewis@bisad.ae



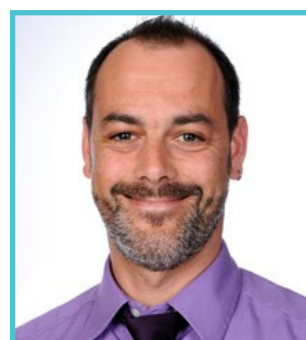
Mr. Ben Stanier
Head of Year 10
ben.stanier@bisad.ae



Ms. Victoria Juett
Head of Humanities
victoria.juett@bisad.ae



Mr. Christopher Gildroy
Head of Computer Science
christopher.gildroy@bisad.ae



Mr. Eric Depose
Head of MFL
eric.depouse@bisad.ae



Ms. Lisa Burrows
10A Form Tutor
lisa.burrows@bisad.ae



Ms. Gaelle Gonzalez
10B Form Tutor
gaelle.gonzalez@bisad.ae



Ms. Samia Sultan
10C Form Tutor
samia.sultan@bisad.ae



Mr. Paul Cochlin
Head of PE
paul.cochlin@bisad.ae



Ms. Adriane O'Connor
Head of Creative Arts
adriane.oconnor@bisad.ae



Ms. Assile Al Amili
Head of Arabic & Islamic
assile.alamili@bisad.ae



Mr. Nicholas Ryan
10D Form Tutor
nicholas.ryan@bisad.ae



Ms. Rana Osman
10E Form Tutor
rana.osman@bisad.ae



Ms. Megan Townsend
10F Form Tutor
megan.townsend@bisad.ae

Year 10 Team

The Year 10 Pastoral Team is led by Mr. Ben Stanier, along with 6 form tutors and a wider extended team. Students attend form time registration each morning at 7:45am, when the National Anthem is played and a register is taken.

Various activities, assemblies and information giving takes place during the registration period and it is also an important time for students to update their BIS AD Diploma to reflect on their successes and progress. If you have any questions or concerns about your son / daughter, you should contact the form tutor in the first instance.

What will students study in Term 1?

In GCSE English, the course is broken up into two parts: Language and Literature. In Year 10, we start with a focus on the Paper 1 for the Language exam. This exam requires students to analyse a non-fiction text (speech / newspaper article / piece of travel writing), an anthology text, compare the two and produce their own piece of transactional writing. In this unit, students will learn how to analyse a text they have never seen before, gain an in-depth understanding of the anthology texts and develop their ability to write clinical and perceptive comparison essays. The students will utilize their knowledge of different text types, audience and purpose as they produce their own portfolio of transactional pieces in preparation for Section B of the exam.

For this exam, the students will be assessed on the following objectives for Section A:

- **AO1:** Read and understand the text, selecting and interpreting information.
- **AO2:** Understand and analyse how writers use linguistic and structural devices to achieve their effects.
- **AO3:** Explore links and connections between writers' ideas and perspectives.

And the following assessment objectives for section B:

- **AO4:** Communicate effectively and imaginatively, adapting form, tone and register of writing for specific purposes and audiences.
- **AO5:** Write clearly, using a range of vocabulary and sentence structures, with appropriate paragraphing, accurate spelling, grammar and punctuation.

During the second half of term 1, we will move on to focus on Literature in the form of a Modern Drama, JB Priestley's *An Inspector Calls*. This is always an incredibly popular text with the students as they get to read, debate and analyse a host of divisive characters and wrestle with contemporary themes of responsibility, social class, love, age and even the supernatural!

Students will study the play with a focus on exam practise questions as this text features in paper 2 of the literature course. Students will be assessed on the below criteria:

- **AO1:** Demonstrate a close knowledge and understanding of the text, maintaining a critical style and presenting an informed personal engagement (10 marks)
- **AO2:** Analyse the language, form and structure used by a writer to create meanings and effects (10marks)
- **AO3:** Show understanding of the relationships between the texts and the contexts in which they were written (10 marks)

40% of students achieved a grade 7 in IB English (highest grade)

How can I support at home?

Ask your child about the content they have covered that week in class. Perhaps they have read a new scene, been introduced to a new text or focused on a new character. Verbalising new knowledge helps to strengthen understanding.

Mind maps – get your child to create mind maps for what has happened in English that week or a mind map of everything they know about that text. This is a simple yet very effective way to strengthen memory and retain information in the long term.

Discuss the novel with your child – ask them about the characters and themes. See if they can talk about parts or quotes in the text and what ideas these sections suggest to them.

How can I extend my child?

To extend your child beyond the curriculum please encourage your child to read at home. We strongly recommend that all students read for a minimum of thirty minutes every day – a great place to start is here:

www.penguin.co.uk/articles/2018/100-must-read-classic-books/

The students should also try to read at least 3 different newspaper articles each week to get used to writing and the craft of language.

The following books may also be of interest to you:

- **Pearson Edexcel International GCSE (9-1) English Language A Student Book** - ISBN: 978-0435182564
- **Pearson Edexcel International GCSE (9-1) English Literature Student Book** - ISBN: 978-0435182588
- **GCSE English Text Guide - Of Mice & Men** by CGP Books
- **Grade 9-1 GCSE Text Guide - An Inspector Calls (CGP GCSE English 9-1 Revision)** by CGP Books

56% of students achieved a grade 8 or higher in Aug 2021.



How can I support at home?

Pupils will be provided with homework tasks linked to specific topic areas throughout the term. All homework will be available electronically via the Year 10 GCSE PE Teams page. In preparation for their practical examination (40% of the course), pupils will need to be regularly involved in both team and individual sports (3 different sports) over the next two years to ensure that they achieve the best grade possible. The criteria for each sport is available on the Teams page or using the link below.

What will students study in Term 1?

In term 1, Year 10 students will study a range of topics within the Sports Psychology and Health, Fitness and Well-being components of the course.

All students will be assessed on the same content. These topics in Term 1 will be:

1. Goal setting – SMART targets
2. Classification of skills
3. Forms of practice – theory and practical application
4. Types of guidance – theory and practical application
5. Mental preparation for performance; types of feedback
6. Sports psychology – use of data
7. Physical, emotional and social health
8. Lifestyle choices & impact of lifestyle choices
9. Sedentary lifestyles and consequences
10. Balanced diet and the role of nutrients
11. Dietary manipulation for sport & optimum weight

We will also focus on specific preparation for answering extended questions (long answer questions) in preparation for their exams.

How can I extend my child?

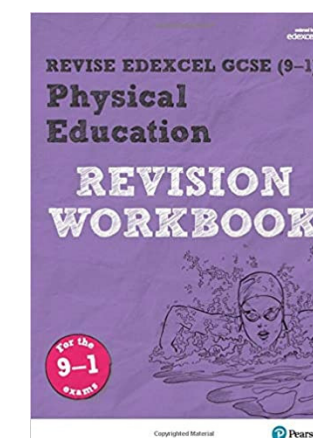
To extend your child beyond the school curriculum please encourage them to practise answering past paper questions. The following revision workbook will be of use:

Revise Edexcel GCSE (9-1) Physical Education Revision Workbook

By Jan Simister

ISBN 978-1-292-13512-0

Practical exam criteria for each individual sport is available at: shorturl.at/qxFH7



What will students study in Term 1?

Higher Course Content

- Percentages:** Solve calculations involving repeated percentage change including compound interest.
- Circle Properties:** Know and apply the theorems of angles and lengths in circles.
- Probability:**
 - Draw and use tree diagrams.
 - Determine the probability that two or more independent events will both occur.
 - Use simple conditional probability when combining events.
 - Apply probability to simple problems.
- Similarity:**
 - Understand and use the geometrical properties that similar figures have corresponding lengths in the same ratio but corresponding angles remain unchanged.
 - Use and interpret maps and scale drawings.
 - Understand that areas of similar figures are in the ratio of the square of corresponding sides.
 - Understand that volumes of similar figures are in the ratio of the cube of corresponding sides.
 - Use areas and volumes of similar figures in solving problems.
- Set Language and Notation:**
 - Understand sets defined in algebraic terms, and understand and use subsets.
 - Use Venn diagrams to represent sets and the number of elements in sets.
 - Use the notation $n(A)$ for the number of elements in the set A .
- 3D Shapes:**
 - Convert between units of volume within the metric system.
 - Find the surface area and volume of a sphere and a right circular cone using relevant formula.

How can I extend my child?

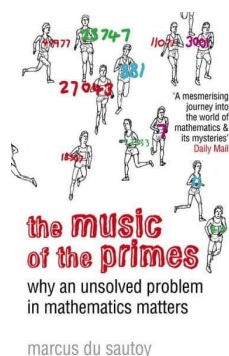
Reading the following book would be excellent extension.

The Music of the Primes: Why an unsolved Problem in Mathematics Matters

by Marcus Du Sautoy

ISBN-10: 1841155802
ISBN-13: 978-1841155807

Available of paperback and kindle



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- Circle Properties: Know and apply the theorems of angles and lengths in circles.
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 - Understand sets defined in algebraic terms, and understand and use subsets.
 - Use Venn diagrams to represent sets and the number of elements in sets.
 - Use the notation $n(A)$ for the number of elements in the set A.
- 3D Shapes:
 - Convert between units of volume within the metric system.
 - Find the surface area and volume of a sphere and a right circular cone using relevant formula.
- Mensuration of 2D shapes
 - Find perimeters and areas of sectors of circles
- Indices and Index Laws
 - Use index notation involving fractional, negative and zero powers
- Algebraic manipulation
 - Understand the concept of a quadratic expression and be able to factorise such expressions
 - Manipulate algebraic fractions where the numerator and/or the denominator can be numeric, linear or quadratic

28% of students achieved a grade 9 in Mathematics at GCSE.

How can I support at home?

All pupils have access to class Teams pages and OneNote, which collates all notes and revision material. We would also recommend <https://www.savemyexams.co.uk/> as an excellent study and revision resource. It can often be difficult to support students when they have reached Year 10 as the work is more complex. In Mathematics practice is always key, at home we would look for short regular study rather than once a week for a long period of time. Three slots of 30 minutes would be ideal in Year 10. If you require more guidance please contact Mr. Starost at stephen.starost@bisad.ae

How can I extend my child?

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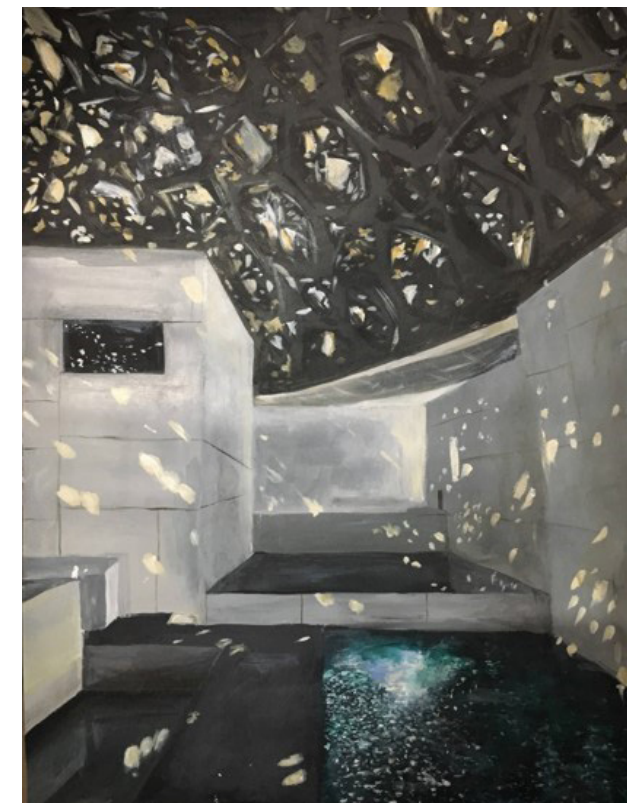
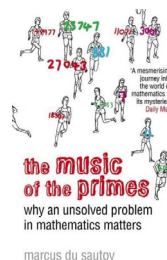
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BISAD Art Work 2021



What will students study in Term 1?

The aim of this course is to introduce students to the Arabic language and to immerse them with the cultural aspect that would help them build their language proficiency. Grammar will be one of the learning focuses as it builds the accuracy of the written and the spoken word.

For this term, the students will complete the theme “Future aspirations” and will be covering the themes of “Work”. By the end of the term your son /daughter will have the opportunity to build the language skills through a variety of learning outcomes, which are outlined in the curriculum brief of term 1 and term 2.

Listening:

- Identify the overall message, key points, details, and opinions.
- Deduce meaning from a variety of spoken texts
- Be able to answer questions, extract information, evaluate and draw conclusions.

Reading:

- Identify the overall message, key points, details, and opinions in texts.
- Recognize and respond to key information, important themes, and ideas in more extended written text, including authentic sources, adapted, and abridged as appropriate, by being able to extract information and answer questions.

Writing:

- Communicate information relevant to the task with expansion of key points and ideas.
- Effective adaptation of language to narrate, inform, interest, and give convincing personal opinions.
- Produce frequently extended sentences, well linked together
- Generally accurate language and structures, including successful references to past, present and future events; occasionally errors occur that hinder clarity of communication.

Speaking:

- Unambiguous; pronunciation supports clear communication.
- Responds to the set questions with consistently fluent and developed responses.
- Consistently effective adaptation of language to describe, narrate and inform, in response to the set questions.
- Pronunciation and intonation are consistently accurate and intelligible.

67% of students achieved at and above grade 8 at GCSE (Aug 2021).

How can I support at home?

Ask students to share what they are learning in class and have them teach you about what they know. You can support your child's learning at home by encouraging them to use the below interactive tools:

- Languagenut <https://www.languagenut.com/global/> (username and login have already sent out through school)
- Linguascope www.linguascope.com Password : bisad / username 20one
- <http://www.arabalicious.com/secondary-resources.html>
- interlingo <https://www.interlingo.co.uk>

How can I extend my child?

To extend your child beyond the curriculum please encourage your child to read at home. We strongly recommend that all students read for a minimum of twenty minutes every day. They should also practice writing for an extended time periodically, this could be through writing short stories, creating a newspaper article about a key event that has taken place or poetry etc.

The Arabic department in the secondary school will provide support to the extended writing. Therefore, your child may receive writing tasks with instructions that can help them produce good quality of writing. We recommend students get a dictionary, the Arabic bank of vocabulary, grammar books for second language learners like Arabic grammar in context.

One third of students achieved at and above grade 8 at GCSE (Aug 2021).



How can I support at home?

على مدار الأسبوع ستكون هناك واجبات منزلية، التي يمكنكم من خلالها معرفة ما يدرسه الطالب في الصف ومساعدته إن واجه بعض الصعوبة في حلها كما يمكنكم تشجيع الطلاب على قراءة الكتب باللغة العربية والتي ستزيد من رصيدهم اللغوي. يمكنكم أيضًا أن تسألوا الطالب عن النصوص التي قام بدراستها ومدى فهمه لها. ألق نظرة على الأنشطة الموجودة في كتاب الطالب واسأله عما إذا كان يفهم الأهداف وكيف يمكنه تحقيقها. شجع الطالب على البحث على نصوص ومواضيع مماثلة لما يدرسه في الصف ومواصلة القراءة على نطاق واسع .

What will students study in Term 1?

خلال الفصل الدراسي الأول للصف العاشر سنركز في التعليم على مهارات التحدث، الاستماع، القراءة والكتابة للطلاب بما يتوافق تمامًا مع منهج وزارة التربية والتعليم، و سيتم تشجيع الطلاب على المشاركة في مجموعات متنوعة أو بشكل فردي باتباع استراتيجيات مختلفة.

حيث سيقوم الطلاب بتحليل التفاعل بين موضوعات عدة وأفكار مركزية، وخيارات لغوية، ودرجات المعنى في نص أدبي، وإظهار معرفة في الأدب العربي والعالمي وفق مرحلته التعليمية، والتحليل بدقة لأفكار عدة مشمولة في نص معلوماتي، وتحديد مدى تفاعلها وتضاربها بالإضافة إلى كتابة نصوص متنوعة، وإظهار القدرة على استخدام اللغة العربية الفصيحة مع مراعاة الغرض والمتلقي، وإنتاج ورقة بحثية في موضوعات متنوعة وتطبيق استراتيجيات البحث، كما سيقوم الطلاب بنقد المادة المسموعة وتقييمها، وتقديم العروض باللغة العربية الفصيحة باستخدام الوسائط المتعددة مراعيًا آداب الاستماع والتحدث وتوظيف المفاهيم النحوية، والصرفية، والإملائية، والبلاغية، المتصلة بالمرحلة توظيفًا سليمًا تحدثًا وكتابةً.

- سيدرّس الطلاب خلال الفصل الدراسي الأول ما يلي:
- القراءة والنصوص: الخبز (قصة قصيرة)- السيرة الذاتية (اسمها تجربة)- مقال (العتاب صابون القلوب) + نصوص خارجية مرتبطة بمواضيع IGCSE
- النحو: الصفة المشبهة – صيغ المبالغة - مراجعة مهارات نحوية مختلفة.
- البلاغة: الاستعارة.
- الاستماع: سث صفات.
- الكتابة: – كتابة سيرة أدبية. — -كتابة مواضيع تعبير مرتبطة بنصوص IGCSE
- المحادثة: تقديم عروض شفوية لمواضيع مختلفة مرتبطة بما يدرسه الطلاب.

How can I extend my child?

يرجى تشجيع الطالب على القراءة المستمرة في المنزل والتي ستزيد من مخزونهم اللغوي، كما نوصي بشدة ضرورة ممارسة الكتابة بشكل دوري، وقد يكون ذلك من خلال كتابة قصص قصيرة، أو شعر... إلخ. وليكن في علمكم ان المكتبة الخاصة بقسم اللغة العربية تزخر بمجموعة كتب قيمة ومتنوعة يمكن للطلاب أن يستعير منها ما يشاء. كما يمكن للطلاب تصفح الموقعين التاليين حيث توجد الكثير من الكتب والقصص والروايات التي يمكنه أن يستفيد منها.

<http://www.syrianstory.com/amis>
<http://al-hakawati.net/stories>

What will students study in Term 1?

The Islamic Studies curriculum of Year 10 aims at confirming the national identity of students as well as strengthening the brotherhood, affection, and cooperation among them. The curriculum also prepares a student to participate effectively in constructing the society and be updated with global changes. It makes a student more open but wisely to other cultures so that the school provides its students a good and rich opportunity to learn Islamic Studies and maximize its role in students' life.

Based on the school's vision and its efforts to qualify the students and help them gain the required skills that enable them deal with different tests in the future, whether school tests or external ones, it has been decided that the contents of both the Ministry and IGCSE curriculums are to be integrated in Year 10. This decision is the reflection of our belief of the great benefit that students will have through this plan which will give the student the opportunity to do the test for Year 11 effectively and efficiently.

The curriculum of Year 10 of term 1 consists of different topics from both the Ministry books and the IGCSE Islamic course.

For the first term the students will study the following topics:

Ministry Book:

The Holy Qur'an and its sciences /Makkan and Madinan Qur'an

IGCSE Topics:

The Life, teaching and achievements of the Prophet Muhammad (PBUH)

1. Personal aspects of the Prophet's life
2. The Revelation of the Qur'an
3. The Prophet hood of Muhammad
4. Opposition and Hijrah

Ministry Book:

Islamic Faith /Mind in Islam

IGCSE Topics:

The Key, beliefs, practice and features of the early Muslim community founded by the Prophet.

1. The nature of belief in Allah
2. Risalah

Ministry Book:

National identity and contemporary / Human development in Islam

IGCSE Topics:

1. Living the Muslim life today
2. Muslim citizenship and religious and political leadership

42% of students who sat Islamic Studies attained a grade 8 or higher.

How can I extend my child?

To promote and enrich the themes of Islamic education, you can use the following link with your child/children at home:

<https://www.islamicstudies.info/tafheem.php?sura=66&verse=1&to=5>
<https://yassarnalquran.files.wordpress.com/2014/11/a-day-in-the-life-of-muhammad.pdf>
<http://www.islamicplayground.com/scripts/prodList.asp?idCategory=29>
<https://yassarnalquran.files.wordpress.com/2010/12/al-qaaida-an-nooraaniyyah.pdf>
<https://www.alsirah.com/the-life-of-muhammad-pbuh-a-timeline/>
<https://www.khanacademy.org/humanities/world-history/medieval-times/origins-of-islam/v/life-of-muhammad-and-beginnings-of-islam-part-1>

and for memorization Qura'n and Tajweed you can use the following link:

<http://www.memorize-quran-app.com/>

How can I support at home?

The supporting at home aims to document the student's relationship with the Holy Qur'an as the first source of knowledge, behavior, values, taste and beauty in order to build a Quranic mentality and psychology, by continuing to read the Qur'an and taking into account the provisions of intonation (tajweed).

One of the pillars of this support is to implant the love of Prophet Muhammad (PBUH) in the heart of the student through the experience of the Prophet's biography, and provide the life of the Prophet (PBUH) as a good example and a role-model to follow.

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الدعم المنزلي

يهدف الدعم المنزلي على توثيق صلة الطالب بالقرآن الكريم بوصفه المصدر الأول للمعرفة والسلوك والقيم والتذوق والجمال وذلك لبناء عقلية ونفسية سليمة وذلك من خلال:

- المداومة على قراءة القرآن الكريم مع مراعاة أحكام التجويد.
- تقوية علاقة الطالب بالبيئة المحيطة به، والحفاظ عليها وإدراك قيمتها للإنسانية بصفة عامة.
- استخدام طريقة المناقشات والحوارات حول القضايا المعاصرة للوصول إلى تعميمات مناسبة.

بالإضافة إلى غرس حب النبي محمد «صلى الله عليه وسلم» في قلب الطالب من خلال معايشة السيرة النبوية، وتقديم حياة الرسول الكريم «صلى الله عليه وسلم» كأسوة حسنة ومثل أعلى يقتدى به.

من خلال الاستمرار في قراءة القرآن والنظر في أحكام التجويد. نوثق علاقة أبنائكم بالقرآن الكريم كمصدر أول للمعرفة والسلوك والقيم والتذوق والجمال لبناء عقلية ونفسية قرآنية سليمة.

أحد أركان هذا الدعم هو تعزيز علاقة الطالب بالبيئة المحيطة ، والحفاظ على قيمتها وإدراكه لأهميتها للبشرية بشكل عام وكذلك طريقة المناقشات والحوارات حول القضايا المعاصرة.

بالإضافة إلى ذلك ، غرس حب النبي محمد «صلى الله عليه وسلم» في قلب الطالب من خلال معايشة السيرة النبوية للرسول صلى الله عليه وسلم كمثال وقدوة يحتذى بها..

جهنم لص خلد

منهج التربية الإسلامية للصف السابع يهدف إلى تأكيد الهوية الوطنية للطلاب، وتقوية أواصر المحبة والأخوة والتعاون بينهم، كما يهدف لإعداد الطالب للمشاركة الفعالة في بناء المجتمع، ولإكسابه التغيرات العالمية، والانفتاح بوعي على الثقافات الأخرى ولهذا الغرض تمنح المدرسة طلبتها فرصة واسعة وثرية لدراسة التربية الإسلامية، وتعظيم دورها في حياة الطالب، وبناء على رؤية المدرسة وسعيها الدؤوب لإعداد الطلبة وإكسابهم مهارات تؤهلهم للتعامل مع مختلف أنواع الاختبارات المستقبلية سواء كانت اختبارات ضمن نظام المدرسة أو اختبارات خارجية فقد تقرر ادراج موضوعات المنهج الوزاري ومنهج الـ IGCSE من الصف العاشر ، إيماناً منا بالفائدة العظيمة التي ستعود على الطلاب من خلال هذه الخطة والتي تمنحه الفرصة لإداء الاختبار في الصف الحادي عشر بشكل جيد.

ويتضمن منهج التربية الإسلامية للصف العاشر للفصل الدراسي الأول على موضوعات مختلفة من شأنها أن تجعل الطالب قادراً على أن:

(موضوعات الكتاب الوزاري)

- (الوحي الإلهي : القرآن المكي والمدني)

(موضوعات الـ IGCSE)

- The Life, teaching and achievements of the Prophet Muhammad(PBUH)
- Personal aspects of the Prophet's life
- The Revelation of the Qur'an
- The Prophet hood of Muhammad
- Opposition and Hijrah
- (العقيدة : العقل في الإسلام)
-

The Key, beliefs, practice, and features of the early Muslim community founded by the Prophet

1. The nature of belief in Allah
2. Risalah

- (الهوية والقضايا المعاصرة : التنمية البشرية في الإسلام)

1. Living the Muslim life today
2. Muslim citizenship and religious and political leadership

منهج الإثرائي

لتعزيز وإثراء مواضيع التربية الإسلامية، يمكنك استخدام الروابط التالية مع أبنائكم في المنزل :

<https://www.islamicstudies.info/tafheem.php?sura=66&verse=1&to=5>
<https://yassarnalquran.files.wordpress.com/2014/11/a-day-in-the-life-of-muhammad.pdf>
<http://www.islamicplayground.com/scripts/prodList.asp?idCategory=29>
<https://yassarnalquran.files.wordpress.com/2010/12/al-qaaida-an-nooraaniyyah.pdf>
<https://www.alsirah.com/the-life-of-muhammad-pbuh-a-timeline/>
<https://www.khanacademy.org/humanities/world-history/medieval-times/origins-of-islam/v/life-of-muhammad-and-beginnings-of-islam-part-1>

What will students study in Term 1?

Students will continue to work through the IGCSE syllabus, something that they started in Year 9. In Term 1 they will be covering the following topics:

Plant Nutrition

- Understand the process of photosynthesis and its importance in the conversion of light energy to chemical energy.
- Know the word equation and the balanced chemical symbol equation for photosynthesis.
- Investigate photosynthesis, showing the evolution of oxygen from a water plant, the production of starch and the requirements of light, carbon dioxide and chlorophyll.
- Understand how varying carbon dioxide concentration, light intensity and temperature affect the rate of photosynthesis.
- Describe the structure of the leaf and explain how it is adapted for photosynthesis.
- Understand that plants require mineral ions for growth, and that magnesium ions are needed for chlorophyll and nitrate ions are needed for amino acids.

Plant Transport

- Understand the need for a transport system in multicellular organisms.
- Describe the role of the phloem and xylem
- Describe and explain the process of Transpiration
- Explain the factors that affect the rate of Transpiration

How can I extend my child?

Students are encouraged to use the internet to keep abreast of recent developments in Science, Biochemistry and Biotechnology by using websites such as:

- New Scientist magazine www.newscientist.com
- BBC Science newpage www.bbc.com/news/science_and_environment
- Resources for biological investigations www.biology-resources.com/biology-experiments2.html and <http://www.biology-resources.com/biology-experiments-sup.html>

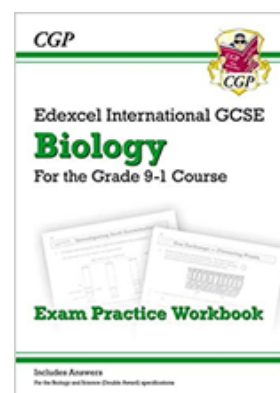
In this way students can find what area of Biology interests them the most and inspires them in terms of future studies and careers.

Book recommendations:

Edexcel International GCSE Biology
For the Grade 9 - 1 Course

ISBN-10: 1782946756

ISBN-13: 978-1782946755



43% of students achieved
a grade 8 or higher



How can I support at home?

A copy of the IGCSE textbook and workbook will be available on Teams, while students have also been given the revision guide for the course. Students are encouraged to review topics covered in lessons by reading the relevant sections in the revision guide and trying relevant questions in the workbook. Students will also have a Century Tech account, accessible via <https://bisad.century.tech/login>, to complete home learning and for any independent study.

STEM Learning magazine
<https://catalyst-magazine.org/>

The exciting science journal for young people aged 14-19 and their educators. Covering scientific research and industrial developments, real-life STEM stories, career journeys, STEM expeditions, and adventure.

62% of students achieved
a grade 7 or higher



How can I support at home?

A copy of the IGCSE textbook and workbook will be available on Teams, while students have also been given the revision guide for the course. Students are encouraged to review topics covered in lessons by reading the relevant sections in the revision guide and trying relevant questions in the workbook. Students will also have a Century Tech account, accessible via <https://bisad.century.tech/login>, to complete home learning and for any independent study.

STEM Learning magazine
<https://catalyst-magazine.org/>

The exciting science journal for young people aged 14-19 and their educators. Covering scientific research and industrial developments, real-life STEM stories, career journeys, STEM expeditions, and adventure.

What will students study in Term 1?

Students will continue to work through the IGCSE syllabus, something that they started in Year 9.

In Term 1 they will be covering the following topics:

1. **Bonding:** to include atomic structure, electronic configuration, ionic bonding, covalent bonding and metallic bonding
2. **Acids, Alkalis and Titrations:** to include Bronsted/Lowry theory, pH scale, neutralization, salt preparation and titration practical techniques.
3. **Chemical Tests:** to include tests to identify gases, anions and cations specified by the syllabus, and identification of unknowns from information provided.

There will be ample opportunity to develop practical skills and exam technique in all these topics.

How can I extend my child?

Students are encouraged to use the internet to keep abreast of recent developments in Science, Engineering and Technology by using websites such as New Scientist magazine.

- www.newscientist.com/ and the [BBC Science newpage](http://www.bbc.com/news/science_and_environment)
- www.bbc.com/news/science_and_environment

In this way students can find what area of Chemistry interests them the most and inspires them in terms of future studies and careers.

Book Recommendations:

Edexcel International GCSE Biology
For the Grade 9 - 1 Course

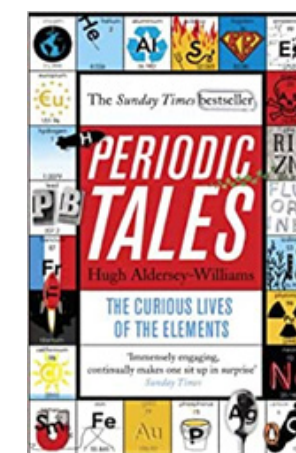
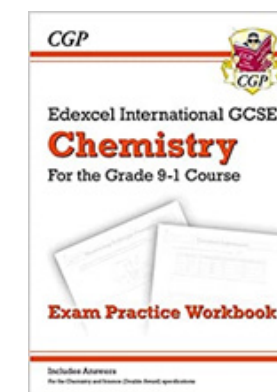
ISBN-10: 1782946861

ISBN-13: 978-1782946861

Periodic Tales: The Curious Lives of the Elements
Hugh Alderney-Williams

ISBN-10: 0141041455

ISBN-13: 978-0141041452



What will students study in Term 1?

In Term 1 of Year 10, students will study energy and waves in detail, building on their earlier studies at Key Stage 3. Students will continue to develop their practical skills and understanding of how to collect accurate and reliable data to make valid scientific conclusions.

The content covered in Term 1 is as follows:

- Identify wave properties
- Describe the parts of the Electromagnetic Spectrum
- Explain the uses and dangers for each part of the Electromagnetic Spectrum
- Describe and explain reflection, Refraction and Total Internal Reflection
- Use the law of reflection and calculate refractive index of a material for light waves
- Describe sound waves
- Measure the speed of sound in air
- Explain the difference between longitudinal and transverse waves
- Know the relationship between wave speed, frequency and wavelength
- Explain the changes in frequency and wavelength for the Doppler effect
- Use an oscilloscope
- Identify energy stores and energy pathways
- Know the law of conservation of energy
- Calculate efficiency and draw Sankey diagrams
- Explain thermal energy transfer via conduction, convection, and radiation
- Calculate Work Done, Power, Kinetic Energy, Potential Energy
- Describe the different methods of electricity generation

How can I extend my child?

A Short History of Nearly Everything

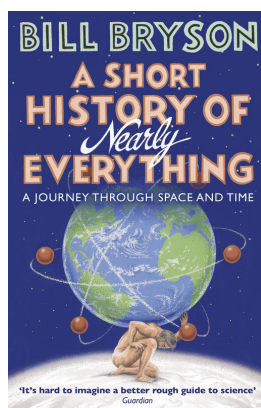
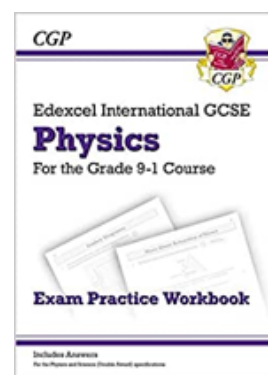
by Bill Bryson

ISBN-13: 978-1784161859

Edexcel International GCSE: Physics

For the Grade 9 - 1 Course

ISBN-13: 978-1782946885



69% of students achieved a grade 7 or higher



How can I support at home?

Your child will have an account on the Century Tech website (<https://bisad.century.tech/login>) which can be accessed using their Office 365 login details at any time to review learning and home learning tasks will also be set here to check/review learning from school. There may be additional home learning assignments set when appropriate. They can also access Seneca Learning to aid their revision. It is recommended that students get in the habit of reviewing their learning on a weekly basis as this is proven to improve results.

STEM Learning magazine
<https://catalyst-magazine.org/>

The exciting science journal for young people aged 14-19 and their educators. Covering scientific research and industrial developments, real-life STEM stories, career journeys, STEM expeditions, and adventure.

30% of students achieved grade 9 at GCSE (Aug 2021).



How can I support at home?

It is essential that students undertake regular revision from the provided guides, accessible through Teams. A "What I need to know" checklist is available on Teams and should help guide students' revision. In addition, practice papers should be utilised in order to consolidate and improve exam technique. Past papers and mark schemes are also all available via Teams. It is worth noting that, 21 out of 75 marks of Paper 1 require case study knowledge to support students' responses. It is therefore recommended that students keep on top of their case study pack outside of school and tick them off against the provided checklist.

What will students study in Term 1?

Students will begin to study for the Cambridge International GCSE in Geography (0460) this term. Students will study Population and natural environments in preparation for the CIE Paper 1 IGCSE (worth 45% of their final grade). Students will explore a range of Human topics, both theoretically and with application to real world examples, including:

- Population Dynamics
- Migration
- Population structures
- Population density and distribution
- Population policies and management
- Earthquakes and Volcanoes
- Rivers
- Coasts

Students will complete regular past paper questions throughout each topic and will be expected to apply case study knowledge to support their responses.

How can I extend my child?

One of the best ways to develop students' extended responses is for them to keep up to date with current affairs and case studies that they can use. A great way to do this is to follow the Geography Flipboard on #ibgeog19. Here, topical news stories will be added regularly to develop students' access to geography in the news.

Search #ibgeog19 on flipboard.com or follow the link to subscribe: bit.ly/2Zp8zvd

What will students study in Term 1?

Year 10 students will be studying Cambridge IGCSE Business Studies. Throughout the year they will gain an understanding of business concepts and techniques across a range of different types of businesses. In the first term, students will be introduced to the purpose and nature of business activity and how business can be classified, and understand how businesses are organised and managed. Finally, the importance and methods of effective internal and external communication will be studied.

Students will develop lifelong skills, including the ability to calculate and interpret business data, communication skills needed to support arguments with reasons, the ability to analyse business situations and reach decisions or judgements.

62% achieved a grade 7 or higher (August 2021)



How can I support at home?

All Business Studies students will be expected to bring their notebook and textbook home for revision, especially near exam time. Students should be encouraged to use correct business terminology, especially key terms, when completing homework activities. Using Quizlet www.quizlet.com/105108626/cambridge-igcse-business-studies-key-terms-flash-cards/ at home is a good way to practise the subject key vocabulary.

- www.bbc.co.uk/bitesize/guides/zgh9ycw/revision/4
- www.rijksmuseum.nl/en/rijksstudio/timeline-dutch-history/1602-trade-with-the-east-voc

How can I extend my child?

To extend your child's understanding of Business Studies, students can keep up to date with current world business affairs and read appropriate news articles. These articles can be brought to their teacher for further discussion. Suggested publications are the Economist, Forbes, Harvard Business Review. News sites such as www.bbc.com/news/business and www.thenational.ae/business are useful for case studies and global developments. The biographies of entrepreneurs are also a good source of inspiration.

Furthermore, some useful business studies websites are:

- www.tutor2u.com
- www.lgbusiness.blogspot.com
- www.igcsebusiness.co.uk

76% achieved a grade 7 or higher (August 2021)



How can I support at home?

Please ensure that your child reads over the notes they made that day. From the start we will be asking them to make revision cards, synthesising the theory covered with definitions and diagrams. This will be ongoing and please ensure that your child stays up to date. They will also start learning how to analyse and evaluate in Economics; having discussions at home regarding current political issues and asking them to explain their reasoning and defend their choices will help them with this.

What will students study in Term 1?

The Pearson Edexcel International GCSE in Economics qualification enables students to:

- develop an understanding of economic concepts and apply these concepts to real-life situations
- calculate, interpret and evaluate economic data in order to make reasoned arguments and informed judgements
- develop an awareness of economic change and its impact on developing and developed economies
- understand economic issues, problems and possible solutions that affect mixed economies
- participate effectively in society as citizens, producers and consumers.

This term students will be learning about microeconomics. They will start by learning about basic economic problems. All resources are scarce and therefore limited in supply. Consumers, firms and governments all have to make choices between different products and these choices will introduce them to the concept of opportunity cost.

Microeconomics is the study of individual markets. They will learn about the supply and demand model, which will give them a toolkit to explore how changes in the economy will affect supply, demand, price and quantity. The model will help to explain why prices rise and fall, for example enabling them to explain the changes in oil, house, gold and cocoa prices. They will look at how much the quantity supplied and demanded will respond to changes in price or income, which will help them to understand why some price changes see large or small changes in quantity.

How can I extend my child?

In order to keep up to date with latest Economic issues and discussions, subscribing to the Economist will be beneficial- they do a special student package:

www.economist.com

Being up to date with current affairs will also prove very useful. The BBC's Economy section will also be useful:

www.bbc.com/news/business/economy

What will students study in Term 1?

In Year 10, Psychology students will be introduced to the fundamental ideas behind what Psychology is and some of the topics that it consists of. As well as this they will begin to develop key skills necessary to meet the expectations of the exams that they will sit at the end of Year 11. The key Psychological topics that will be covered in this term are as follows:

- 1. An introduction to Research Methods:** To begin their GCSE qualification students will explore the fundamentals in Psychology, Research Methods. These are the tools used by Psychologists in the field to develop their research and knowledge of the human mind and behaviour.
- 2. Social Influence:** Students will learn the effect groups of people may have on an individual, in terms of conformity and obedience. As well as this, they will explore key pieces of Psychological research by Zimbardo (1973) and Piliavin et al. (1969).
- 3. Social and Cultural issues in Psychology:** Students will begin to develop their critical thinking and evaluative skills by questioning the use of Western/non-Western research in alternative cultures.

63% achieved a grade 7 or higher (August 2021)



Safa AlDulaimi Yr 12 2021

74% of students achieved a grade 7 or higher in Aug 2021.



How can I support at home?

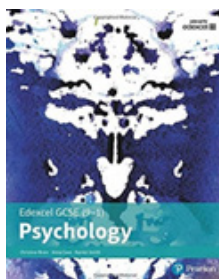
Students should use the lesson resources shared on OneNote to facilitate their deeper study of these areas and to revise ahead of any assessments or essay writing tasks. Many of these lessons include videos, quizzes and resource sheets that will be incredibly useful.

In the 'Revision' section of OneNote students will also find links to several text books that we are using that will be vital when revising or catching up on any missed topics.

In addition third party sites like BBC Bitesize (<https://www.bbc.co.uk/bitesize/guides/z3h9mnb/revision/1>) can also prove useful.

How can I extend my child?

The following textbook will be used within lesson time, in order to prepare your child for success in Psychology:



Edexcel GCSE (9-1) Psychology
By Christine Brain, Anna Cave and Karren Smith

ISBN-10: 1292182776
ISBN-13: 978-1292182773

Available on paperback and kindle

How can I support at home?

Students' homework tasks will vary from week to week, but will include exam style questions, online quizzes and self-assessment tasks. Any homework tasks will be recorded in their homework folder on One Note so that each individual knows exactly what they need to do and by when.

Most homework tasks will provide students with the opportunity to extend their knowledge in the form of a challenge task. All students can choose to complete this task if they wish, yet students consistently achieving 70% or above in class assessments (3 or more consecutive class assessments) should always be completing these tasks within a reasonable amount of time.

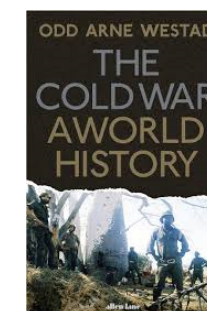
What will students study in Term 1?

In Year Ten, students will study the Core Content for Paper one of their IGCSE examination. The topics are based on International Relations since 1919 and are based on a number of key enquiries. These topics include:

- 1. Were the peace treaties of 1919-23 fair?** This topic focuses on the role of the 'Big Three' in the peacemaking process including their aims and motives. It then considers the impact of the treaties on Germany and evaluates the extent to which the treaties were justified at the time.
- 2. To what extent was the League of Nations a success?** This topic considers the strengths and weaknesses of the structure and organisation of the League of Nations, the extent to which it was successful in keeping peace in the 1920s, the impact of the League's humanitarian work, the impact that the world depression had on the League, and the reasons for the League's failure in Manchuria and Abyssinia.
- 3. Why had international peace collapsed by 1939?** This topic examines the long term consequences of the Treaty of Versailles, the consequences of the League of Nations, the extent to which Hitler's foreign policy was to blame for the outbreak of war, and the relative importance of the policy of appeasement and the Nazi-Soviet Pact.
- 4. Who was to blame for the Cold War?** This topic examines the reasons for the USA-USSR alliance breaking down in 1945, how the USSR were able to gain control of Eastern Europe by 1948, the USA's response to Soviet expansion, and the consequences of the Berlin Blockade.

How can I extend my child?

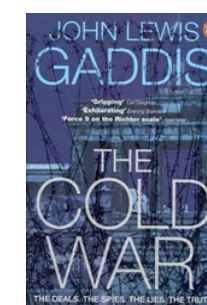
Some books that might be of interest to you:



The Cold War: A World History
By Odd Arne Westad

ISBN-10: 154167409X
ISBN-13: 978-1541674097

Available on paperback and kindle



The Cold War
By John Lewis

ISBN-10: 0141025328
ISBN-13: 978-0141025322

Available on paperback and kindle

What will students study in Term 1?

Your child will be studying digital devices and using Microsoft Excel (spreadsheets). This will branch into effectively using formulae, cells, formatting in Excel, using charts and preparing outputs.

For the digital device topic which links to paper 1 of their exam they will focus on:

- Types of peripheral devices (Input/Output)
- Storage devices, memory and processors
- Understanding ICT system requirements
- Understand how each type of device is used but not the technology behind their operation
- Understand features of digital devices: portability, performance, storage, user interface, connectivity, media support, energy consumption, expansion capability, security features
- Identify the differences between system software and application software.

For the Spreadsheet topic which links to paper 2 of their exam they will focus on:

- Know data types, number, text
- Format a worksheet: currency, percentage, decimal places, date, time, text wrap, row height, column width, gridlines, merge/split cells, cell borders, cell shading, hiding rows and columns
- Use formulae: arithmetic operators (plus, minus, multiply, divide), percentage, single
- operators, multiple operators, absolute and relative cell referencing, named cells/ranges. Replicate effectively
- Use functions: SUM, AVERAGE, IF, VLOOKUP/LOOKUP, MAXIMUM, MINIMUM, COUNT (COUNTA, COUNTIF), LENGTH, PRODUCT
- Use other features: multiple worksheets, sorting, filtering
- Add graphs and charts: pie chart, line chart, bar/column chart, scattergram
- Select an appropriate graph/chart and format it effectively adding title, axis labels, legends, axis, scale, trend line as appropriate
- Print selected columns/rows from a worksheet formula view or data view in landscape or portrait format, adding headers and footers, row and column headers.

How can I support at home?

Ensure students are completing their home learning. Revisit their work on Microsoft Teams, where all resources will be shared with students.

56% achieved a grade 7 or higher (August 2021)



How can I extend my child?

The aim of this unit is to help develop students' skills in Excel and learning about digital devices. They can research examples of data modelling online and how Excel is used around the world to model data. Students can also speak to relatives or family friends and ask if they use Excel in their work. Students can apply their theory knowledge into real life. They can do this by going to a local electronic consumer and comparing various digital devices being sold and looking at what various devices consist of.

They can also visit www.edu.gcfglobal.org/en/excel/ where students can view tutorials to help further their learning or at least reinforce what they have learnt.

One third of students attained a grade 9 in computing (August 2021)

How can I support at home?

There is various support material that should be used extensively at home in addition to any home learning tasks set. Please ask your child to talk to you about each of the following. All resources used in lesson are available on our Microsoft Teams platform which is available on any device with an internet connection.

- Standard lesson resources (all worksheets and answers included for self assessment)
- E-books for all classroom textbooks
- Exam revision packs for all topics studied (based on exam paper questions)
- Classroom notes taken in OneNote

I would like to stress the importance of external reading. The highest achieving students in our school will make extensive use of external texts to support any learning that has occurred in lesson. We would not recommend that you purchase all of the books below, but would strongly suggest that your child has at least one of these to refer to. All of these books are available as E-Books for you to review prior to purchase.

Cambridge IGCSE Computer Science – Study and Revision Guide by David Watson and Helen Williams – ISBN 978-1-471-86868-9

Cambridge IGCSE – Computer Science Revision Guide by David Watson and Helen Williams – ISBN 978-1-107-69634-1

Cambridge IGCSE – Computer Science – Programming Book for Python by Chris Roffey - ISBN – 978-1-316-61782-3

Cambridge IGCSE Computer Science workbook by David Watson & Helen Williams – ISBN 978-1-471-86867-2

What will students study in Term 1?

During this term students will be starting the Computer Science IGCSE qualification. This qualification is highly technical and will challenge students' academic and problem-solving skills.

Through the first term, students will be learning about the fundamentals of Computer Science by discovering the mathematics lying at the foundation of computers and how data is stored in both memory and storage.

In the second half of the term students will start to develop problem solving and programming skills by learning to program using the language Python 3.

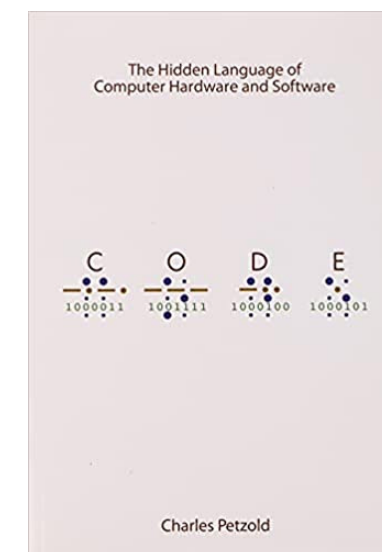
How can I extend my child?

There so many ways to extend the learning for computing. I have listed a couple of ideas here but please either get in contact or ask your child to come and speak to me (I can usually be found in room 305).

Have a go at programming a microcontroller via the Arduino platform. The Arduino can be purchased relatively cheaply and I am happy to demonstrate how to get started as we have the equipment available in school. There is also a very good online simulation where you can program virtual devices. There are extensive online tutorials available online to support you.

Online simulation - www.create.arduino.cc
Official website - www.arduino.cc

I would also recommend the book **Code: The Hidden Language of Computer Hardware and Software** (Charles Petzold)



What will students study in Term 1?

In Year 10 students have chosen to continue develop further their study of a foreign language as an option. Our aim is not only to prepare them for the requirements of the Cambridge IGCSE in Foreign language but also to equip them with the tools to participate in familiar conversations, understand and produce a range of texts of a lower intermediate level (A2-B1). One of the key aspects of success at IGCSE is the ability to express past, present and future tenses and a regular revision of the vocabulary in the following topics:

Area of Study: Personal and social life

- Self, family, and friends: giving basic details about oneself, describing family and friends
- My school: talking about school subjects, timetables, teachers and projects after school
- My home: describing your house, where you live, what you do round the house
- My local area: describing the region, living the city, in the countryside, places.
- Leisure time: talking about hobbies, sports, leisure activities, going out
- Technologies: describing technologies and discussing their use
- Media and Communication: how do we get informed, the internet, reading and music
- Celebrities: talking about people we admire
- Relationships: getting on with your family and friends, issues

How can I extend my child?

YouTube is a goldmine for songs and videos in the target language that would help develop listening skills. <https://lyricstraining.com/de/> is a fun way to extend vocabulary and develop listening skills.

Useful website to revise or extend vocabulary and grammar:

www.languagesonline.org.uk

The languages library has a few graded (e-)books online that students can borrow to read for pleasure.

100% of students achieved a grade 6 and higher at GCSE in Aug 2021.



How can I support at home?

At home, parents can support students in this work by encouraging regular, short revision sessions on Quizlet to practise vocabulary and regular review of the Content Library in the Class Notebook. In Year 10, students will be set a regular home learning task on Education Perfect, our language platform. These tasks are designed for the students to drill vocabulary of the lesson/module. We use Teams and OneNote to set home learning, to communicate with the students and to share relevant resources.

- Education Perfect (www.educationperfect.com/login) gives the opportunity to practise a specific grammar aspect or vocabulary list. Students have their own login details.
- www.languagesonline.org.uk offers vocabulary and grammar activities following our curriculum.
- www.linguascope.com (username: bisad, password: twenty20one) is great for basic vocabulary games.

We have one Education Perfect Language competition coming up in October which will be a fun way to boost vocabulary knowledge and show off language skills!

28% of students gained a 9 at GCSE in August 2021



How can I support at home?

The expectations and rigour of the Art GCSE course means that from the onset your son/daughter should ensure they are in the habit of working outside of lessons. This can be at home or at school in lunchtime/afterschool sessions. Art is a subject where the student can always be adding, amending, and re-working. The opportunity to work outside of lessons is facilitated by lunchtime and after school sessions.

There is exemplar GCSE Art student work on www.studentartguide.com. Create an account on www.art2day.co.uk to get access to an extensive range of successful artists' work and creative ideas (artist research is one of the four assessment criteria for Art & Design GCSE) to support your son or daughter to be diverse and ambitious in their artist investigation and generation of ideas. Visit an art gallery to take pictures and/or draw their favourite work of art or sculpture (Louvre, Manarat Al Saadiyat etc.) relevant to their current project.

What will students study in Term 1?

Unit 1: Culinary Arts: Food & Drink Unit (An Introduction to GCSE Art)

In this unit, students will learn about the context of food and drink in art and how it has developed throughout art history. Students will engage in a range of quick and fun experimental drawing techniques to develop their skills and knowledge of art methods. They will demonstrate their progress through a series of developmental sketchbook pages that demonstrate their understanding of how to achieve each of the four assessment objectives at GCSE level.

Topics include:

- Selecting relevant imagery and artefacts that support own ideas.
- Developing observational drawing skills and techniques.
- Exploring ideas through artist investigations and research.
- Analysing artworks from different times and places
- Creating an outcome in response to the topic of food and drink.

How can I extend my child?

Family discussions are a great way to broaden the development of ideas and critical thinking skills. Ask your child about their area of interest and conceptual focus. Visit Art Gallery exhibitions in person where possible and online to gather visual resources and explore art from different cultures, contexts, and times. Ensure they have access to a creative practical space and art materials at home as well as in school.

Explore current art events by visiting Art2Day: <https://www.art2day.co.uk/>

Google Art and Culture: <https://artsandculture.google.com/?hl=en>

Warehouse 421: <https://www.warehouse421.ae/en/>

Louvre AD: <https://www.louvreabudhabi.ae/>

Manarat Al Saadiyat: <https://manaratalsadiyat.ae/en/default.aspx>

What will students study in Term 1?

Year 10 Drama students will study a range of skills and knowledge that will underpin all areas of the IGCSE Drama curriculum. Students will continue to develop their experience as performers and directors alongside building their knowledge of skills and theory. All students will be taught and assessed in the following areas:

- Devising Theatre
- Group Scripted work
- Written evaluations of performance work

Term 1

During the first half term students will consider the skills necessary to be successful in IGCSE Drama. They will also complete a short initial baseline assessment based on both script and devising theatre.

In the second half of the term students will workshop ideas and concepts related to various stimulus based on Expo 2021 theme of “Connecting Minds, Creating the Future”. These devising workshops will lead to a short 10-minute piece of theatre that will be assessed using IGCSE Devising criteria.

Skills

- Language
- Voice
- Structure
- Forms of Theatre
- Performance skills
- Understanding the role of an actor, director, and designer

How can I extend my child?

Books and websites that will be of interest and facilitate learning:

<https://www.cambridgeinternational.org/Images/414112-2020-2021-syllabus.pdf>
<https://www.dramaonlinelibrary.com/>
<https://www.nationaltheatre.org.uk/about-the-national-theatre/national-theatre-live>

Frantic Assembly is one of the world leading devising and physical theatre companies. This book contains a wealth of knowledge about approaches to creating original theatre.

Theatre companies to research

- Gecko Theatre
- Complicite
- Istitut
- Paper Birds
- Frantic Assembly

Half the students taking Drama achieved a grade 7 or higher in Aug 2021.



How can I support at home?

Encourage your child to have open and frank discussions about current affairs. Help them to shape their ideas and opinions of the world around them, allowing them to form valid and informed opinions. In addition, encourage your child to watch live theatre performances. It may not always be possible to attend the theatre, but there are plenty of options available online including Digital Theatre, Drama Online which have huge resource library and live performances.

60% of students achieved an A in Music in Aug 2021.*



How can I support at home?

Students will be expected to partake in regular instrumental practice, reviewing their progress with the class teacher and instrumental specialist. Resources to complement learning in lessons, such as extended worksheets and web links, will be provided through Teams. Students should aim to practise on their instrument for at least 20 minutes every day.

Music theory and listening activities will be made available via Teams. These activities will comprise of questions requiring students to write and draw answers on the worksheet; this can be completed electronically or on paper. Students would benefit from assistance with reading questions thoroughly and developing research strategies when required, such as finding relevant information online.



What will students study in Term 1?

Year 10 Music students will study a range of skills and knowledge that will underpin all areas of the IGCSE Music curriculum. Students will continue to develop their experience as performers and composers alongside building their knowledge of music theory. All students will be taught and assessed in the following areas:

Musical Elements: The musical elements will form the foundation of all musical discussion, appraisal and analysis through listening to their own and others' work.

Performing Music: Students will continue extend their potential as performers where individual strengths on an instrument or voice will be assessed for IGCSE level target setting.

Composing Music: Through activities in performance and music notations, students will be shown how to generate their own musical ideas including melody writing and harmonic structures.

Music Notation: Traditional notations including theoretical understanding of pitch and rhythm.

Listening and Appraising: Students will apply their knowledge of musical elements when listening to recorded pieces of music in a variety of styles. This topic is an introduction to the requirements of the IGCSE written assessment.

How can I extend my child?

YouTube is an excellent resource for listening skills as well as for instrumental tutorials.

Musictheory.net is great for extending your child's grasp of music theory and notation.

Encourage your child to **sign up for instrumental/vocal lessons** through the **International Music Institute** or **Juli Music Institute**. More details at <https://www.imig.ae/>. BIS Abu Dhabi student pricing for online classes available at <https://www.musicart.ae/>

Encourage your child to download one of the following free resources for music creation and arrangement:

GarageBand (Apple, free with devices)
SoundTrap (all devices using school account)
MuseScore (all devices, no signup required)

Students should listen to a range of genres of music and use their appraising skills to identify key characteristics. Students may choose to read articles and journals relating to the effect of music on the brain, mood and everyday life.



THE BRITISH
INTERNATIONAL SCHOOL
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A NORD ANGLIA EDUCATION SCHOOL