THE BRITISH SCHOOL
OF NANJING
A NORD ANGLIA EDUCATION SCHOOL

Key Stage 4 Curriculum Map   2021 - 2022   Subject: Computer Science (2 year course)

Term	Year 1	Year 2
1.1	Data representation **(AO1, AO2)** Algorithms, flowcharts and basic programming principles **(AO1, AO2)**	Databases **(AO1, AO2)** Hardware and software – operating systems, language types and translators **(AO1, AO3)**
1.2	Hardware and software – logic gates, I/O devices and storage **(AO1)**	An introduction to pre-release material programming tasks **(AO1)(AO2)**
2.1	Representing algorithms with pseudocode **(AO1, AO2)** Data transmission and networks **(AO1, AO3)**	Security**(AO1, AO2, AO3)** Paper 2 pre-release material programming practice **(AO1, AO2, AO3)**
2.2	Representing pseudocode with Python **(AO1, AO2)**	Ethics **(AO1, AO3)**
3.1	Hardware and software – computer architecture and the fetch execute cycle **(AO1)**	Official pre-release task completion and Paper 2 preparation **(AO1, AO2, AO3)**
3.2	Data structures and further programming concepts in Python **(AO1, AO2)**	Consolidation & Examination practice

Assessment objectives

AO1: Recall, select and communicate knowledge and understanding of computer technology

AO2: Apply knowledge, understanding and skills to solve computing or programming problems

AO3: Analyse, evaluate, make reasoned judgements and present conclusions

AO1- Demonstrate knowledge and understanding of the key features and characteristics of the periods studied

AO2- Explain, analyse and make judgements about historical events and periods studied using second-order historical concepts

AO3- Use a range of source material to comprehend, interpret and cross-refer sources

AO4- Analyse and evaluate historical interpretations in the context of historical events studied