

KAA Curriculum Overview		Computer Science	Year 7	EOY Exam	Sequencing and Progression	
Rationale Give an overview of what students are studying this year and why. Link directly to your overall curriculum intent. Students are studying how to stay safe online and will be introduced to algorithms and programming. Students will also learn about Computer hardware.				What content and skills will be assessed in the EOY exam? Link to model exam papers here.	How does this year build on what they've learnt last year? n /a	How will it benefit them as they move forward next year? The units in this year are introductions to computer science and students will have the opportunity to develop their idea as the progress.
Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Sum 1	Sum 2
Link to MTP Overview						
Topic studied	Introduction to Computer Science Staying Safe Online Algorithms	Algorithms and Scratch	Algorithms and Scratch AI and Computer Hardware	AI and Computer Hardware	Python Turtle	Python Turtle
Adjustments following last assessments / evaluation.	As a department, we felt that a large amount of time was spent on staying safe online. This has been reduced and more time to include programming.		This unit has been added to introduce students to hardware earlier.	This unit has been added to introduce students to hardware earlier.		
Key knowledge and skills students need to have gained by the end of the unit	Students will know: <ul style="list-style-type: none"> Why it is important to use a strong password What social networking and how to stay safe on the Internet How to keep their personal data and identity secure Why posting personal information can be dangerous. 	Students will create algorithms using the following: <ul style="list-style-type: none"> Sequence Selection Iteration Students will construct algorithms to loop using a conditional. Students will create flowcharts And will understand the importance of why Instructions need to be placed into the correct order.	Students will create algorithms using the following: <ul style="list-style-type: none"> Sequence Selection Iteration Students will construct algorithms to loop using a conditional. Students will create flowcharts And will understand the importance of why Instructions need to be placed into the correct order. Using Scratch students will also know the following keywords <ul style="list-style-type: none"> Scripts Sprite Stage Variable 	Students will look into what Artificial Intelligence is. Students will know the difference between Input and Output Devices and Hardware and Software. Students will look into the following hardware devices and understand their purpose within a computer system: <ul style="list-style-type: none"> CPU RAM Hard Drive Motherboard Students will be able to convert binary numbers to denary and will understand the how text is represented using ASCII.	Students will be introduced to Python turtle and will use commands to produce programs using: <ul style="list-style-type: none"> Sequence Iteration Procedures 	Students will be introduced to Python turtle and will use commands to produce programs using: <ul style="list-style-type: none"> Sequence Iteration Procedures

How is understanding assessed at the end of the unit?	Staying safe online poster	Algorithms Assessment Paper	Create a game in Scratch	AI Assessment Questions	Create the school Logo in Python Turtle	EoY Exam
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