



Curriculum Plan – Year 8

Year 8	Knowledge (Topics covered, NC links)	Subject Skills	Key Assessment	Literacy and Numeracy	School values (Attitude / Achievement / Community / Endeavour)	Extra curricular opportunities	Personal development (Character, SMSC, Fundamental British values, Careers guidance, healthy living, Citizenship, equality and diversity, financial capability, preparation for next stage)
Term 1	Flowcharts/Programming/Algorithms: Decomposition & abstraction Flowcharts & pseudocode Sequence & selection Iteration (FOR) Iteration (WHILE) Students will look at algorithmic design and apply to everyday systems through the use of soft systems in Logicator. They will then build on this knowledge	Independent enquiry skills Team working skills Creative thinking skills Reflective learning skills Effective participation skills Self-management skills	End of unit assessments: End of cycle assessment	We recognise the importance of developing high level literacy and numeracy skills and for this reason all topics that are delivered have a focus on the development of students' literacy and numeracy skills.	Attitude – Students are expected to come to lessons with the attitude to learn in order to ensure that they reach their full potential. Achievement – We celebrate the successes of our students using epraise Endeavour – Students are given opportunities to practice their skills both inside and outside of their class. Perseverance is essential when learning any computing	STEM Club	<p>Basic ICT skills essential/ICT literacy for future success in many subjects and job roles.</p> <p>Developing the student's digital fluency and the ways in which they can become more confident and safe digital citizens. Aiming to create digitally literate students who have the ability to use and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.</p> <ul style="list-style-type: none">• Respect civil and criminal law -• laws relating to the use of IT and the internet• Appreciate viewpoints of others on ethical issues



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	using Python to problem solve.				language – practice is the key.		<ul style="list-style-type: none">• Acceptance and engagement with fundamental British Values of democracy• Contribute positively to life in modern Britain
Term 2	HTML Students will learn to build a website using HTML - HTML is the standard markup language for Web pages. In this unit students will gain an understanding of how websites are displayed within a browser using HTML and CSS. Starting with an introduction to how websites are requested and delivered to our computer via the internet and the World Wide Web.	Independent enquiry skills Team working skills Creative thinking skills Reflective learning skills Effective participation skills Self-management skills	End of unit assessments: End of cycle assessment	We recognise the importance of developing high level literacy and numeracy skills and for this reason all topics that are delivered have a focus on the development of students' literacy and numeracy skills.	Attitude – Students are expected to come to lessons with the attitude to learn in order to ensure that they reach their full potential. Achievement – We celebrate the successes of our students using epraise Endeavour – Students are given opportunities to practice their skills both inside and outside of their class. Perseverance is essential when learning any computing language –	STEM Club	Basic ICT skills essential/ICT literacy for future success in many subjects and job roles. Developing the student's digital fluency and the ways in which they can become more confident and safe digital citizens. Aiming to create digitally literate students who have the ability to use and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world. <ul style="list-style-type: none">• Respect civil and criminal law -• laws relating to the use of IT and the internet• Appreciate viewpoints of others on ethical issues



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Term 3	Data Representation (I): Storage units & binary numbers Binary arithmetic Creating a digital graphic – links to iMedia course.	Independent enquiry skills Team working skills Creative thinking skills Reflective learning skills Effective participation skills Self-management skills	End of unit assessments: End of cycle assessment	We recognise the importance of developing high level literacy and numeracy skills and for this reason all topics that are delivered have a focus on the development of students' literacy and numeracy skills.	Attitude – Students are expected to come to lessons with the attitude to learn in order to ensure that they reach their full potential. Achievement – We celebrate the successes of our students using epraise Endeavour – Students are given opportunities to practice their skills both inside and outside of their class. Perseverance is essential when learning any computing language –	STEM Club	Basic ICT skills essential/ICT literacy for future success in many subjects and job roles. Developing the student's digital fluency and the ways in which they can become more confident and safe digital citizens. Aiming to create digitally literate students who have the ability to use and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world. <ul style="list-style-type: none">• Respect civil and criminal law -• laws relating to the use of IT and the internet• Appreciate viewpoints of others on ethical issues• Acceptance and engagement with



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