Year 9 Curriculum Map : Computing			
	Autumn	Spring	Summer
Assessment Objectives Unit	AO1: Demonstrate knowledge and understanding of the key concepts and principles of computer science.  AO2: Apply knowledge and understanding of key concepts and principles of computer science.  AO3: Analyse problems in computational terms: • to make reasoned judgements • to design, program, evaluate and refine solutions.  Topic – Python and Microbits  Topic – Computer Systems		
Key Learning Outcomes	<ol> <li>Sectors, products and roles in the media.</li> <li>Raster Vs Vector _ Quality images Knowledge audit test.</li> <li>Photoshop Skills – Retouching Self assessment of skills</li> <li>Photoshop Skills – Contrast and Colour</li> <li>Photoshop Skills – Layout and layers</li> <li>Illustrator Skills – Typography and Logos.</li> <li>Assessment and D.I.R.T lesson.</li> </ol>	<ol> <li>Physical computing intro</li> <li>Bare bones – Writing programs using inputs outputs.</li> <li>Connection – Writing programs that allow do to communicate. Self assessment of skills</li> <li>Dream it up – Creative programming solutions Knowledge audit test.</li> <li>Wrap it up – Creative programming solutions Assessment and D.I.R.T lesson.</li> </ol>	3. CPU performance 4. Secondary Storage. Knowledge audit test. 5. Embedded systems 6. Assessment and D.I.R.T lesson.
Prior knowledge	KS2: Pupils should be taught to design, write and debug programs simulating real world systems; including a secure knowledge of key programming techniques. Pupils should be able to explain how simple algorithms work. Pupils should be able to use a variety of software and devices to collect, present, analyse, evaluate and present data.		
CEIAG Specific careers links	Link to careers routes: Graphic Design, Animation, Game Design Engineer, Programmer, Robotics.  Topics to be delivered by employers: Software development, Robotics, IT  Link to personal skills: problem solving, resilience, creativity.		
RRSA	Article 16: right to privacy Artic	cle 3: best interests of the child cle 28: Right to education cle 29: Goals of education	Article 3: best interests of the child Article 28: Right to education Article 29: Goals of education
Cross curricular links	Maths – Key programming terminology, Programming operators, Excel calculations, Collecting and manipulating data, Cryptography, Random number generation, famous mathematicians  Science – Key programming terminology, circuits and voltages inside a computer.  DT – Engineering and programming for real world solutions.		
Useful websites/videos	Photoshop tips - <a href="https://www.youtube.com/watch?v=OjRqZiAgoHo&amp;t=285s">https://www.youtube.com/watch?v=OjRqZiAgoHo&amp;t=285s</a> Vector and Raster Graphics - <a href="https://www.youtube.com/watch?v=-Fs2t6P5AjY">https://www.youtube.com/watch?v=-Fs2t6P5AjY</a>		
Wider Reading	Decision point – George Boole - <a href="https://www.google.co.uk/books/edition/Decision">https://www.google.co.uk/books/edition/Decision</a> Points/UgzG0I8WkloC?hl=en&gbpv=1&dq=cpu+george+boole&pg=PA1&printsec=frontcover		
Literacy Programme	<ul> <li>Decode it NOW, Review it now, Glossary pages for key terminology.</li> <li>Sentence Starters</li> <li>Guided practice/model answers</li> <li>Immersive reader function in office 365.</li> </ul>		

Reciprocal reading tasks.
nowledge organiser recall questions. Students are asked to complete these to prepare for knowledge audits and assessments. Know it, Think it, Grasp it questions.
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