Computer Science

A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world. Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems. The core of computing is computer science, in which pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content. Computing also ensures that pupils become digitally literate – able 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.

	1	2	3	4
Year 7	Esafety quiz in Scratch	PC components presentation	Plan and creation of your own Scratch game	Python Assessment
Year 8	Esafety website coded in HTML and JavaScript	Crazy Computing in-class end of unit test	Python assessment	Plan and creation of your own game in Kodu
Year 9	Esafety based Python text based game	Cyber Security presentation	Dynamic website creation using HTML, JavaScript and CSS	-
Year 10	Assessed via a 20 hour (Mock) Programming Project			
Year 11	Assessed via a 20 hour Programming Project			

Subject AO	Simple summary
AO-1	Demonstrate knowledge and understanding of the key concepts and principles of computer science.
AO-2	Apply knowledge and understanding of key concepts and principles of computer science
AO-3	Analyse problems in computational terms: • to make reasoned judgements

	• to design, program, evaluate and refine solutions

Key Skills	
1	Analytical skills
2	Problem-solving skills
3	Creativity
4	Critical-thinking skills
5	Resilience

Useful resource links (web sites, books etc)
www.computing.outwood.com/NEA/python/key-syntax.html
www.stackoverflow.com
www.python.org
www.scratch.mit.edu