



Computing					
Year 7	Topic	Programme of Study			
Autumn 1	Clear Messaging in Digital Media	Why This? To ensure students know how to search for information safely using key search terms			
		Why Now? To promote positive online relationships, privacy and security.			
		Key Knowledge Understand a range of ways to use technology safely, respectfully, responsibly and securely including protecting their online identity and privacy, recognise inappropriate content and know how to report concerns. Create, reuse, repurpose digital artefacts for a given audience with attention to trustworthiness.			
		Key Vocabulary			
		 Logo Complementary Descriptive Reflects Communicates Relates 			
		Sources CEOP ThinkUKnow			
		Curriculum Assessment tasks Assessment rubric			
		Personal Development links To promote online safety and healthy relationships			
Autumn 2	What are Computers	Why This? To ensure that students know where computers come from throughout its history and how computer systems are maintained run in organisations.			
		Why Now? As students start their KS3 journey they need to have and understanding of programming origins and where computers came from before embarking on programming skills through visual programming (Scratch) and then on to text based programming (Python) in year 8.			

Computing



		Key Knowledge
		 Key points in the history of computing. Inputs and outputs. Hardware & software. Networks. Human Computer Computer language – Binary/Denary.
		Key Vocabulary Binary, Denary, inputs, Outputs, Sensors, Hardware, Software, Peripherals, CPU, Motherboard, RAM, Hard Drive, Bugs, Machine Code, ASCII.
		Sources Teams/OneDrive Assignment – What are computers: Part 1 (History) & What are computers: Part 2 (Computers).
		Curriculum Assessment tasks Assessment Rubric in Teams/OneDrive. There is an assessment task for each of the two parts which are peer and teacher assessed (See Teams/OneDrive Assignment).
		Personal Development links To understand how we use computers in everyday life and how systems work.
Spring 1	Programming essential in Scratch 1	Why This? To build students confidence and knowledge of key programming constructs
		Why Now? Build on KS2 curriculum and allows students the opportunity to expand their knowledge through this study
		Key Knowledge Focuses on key techniques used in programming.
		Key Vocabulary Subroutines Iteration Variable Operator
		Sources Curriculum Assessment tasks Programming assessment
		Personal Development links To enable students to be resilient learners





Spring 2	Modelling Data – Spreadsheets.	Why This?
		To introduce and build students confidence in using and manipulating spreadsheets, including as a database.
		Why Now?
		To have a specific focus on IT skills and improving their knowledge of software in preparation for further study in education and employment for the future.
		Key Knowledge
		 How to use a spreadsheet. What are the key elements of a spreadsheet. How to create functions and formula for automatic and repeating calculations (loops).
		Key Vocabulary
		Cells, Columns, Rows, Functions, Equations, Cell Reference.
		Sources
		Teams/OneDrive Assignment – Modelling Data Spreadsheets.
		Curriculum Assessment tasks
		Assessment Rubric in Teams/OneDrive. There is an assessment task which are peer and teacher assessed (See Teams/OneDrive Assignment).
		Personal Development links
		Understand how spreadsheets and databases are used in the workplace. Much of the work is based around vocational scenarios.
Summer 1	Using Media –	Why This?
	gaining	

Computing

work



	support for a cause	To build students confidence in using word processing skills and to be able to use this is educational and professional arenas.
		Why Now?
		To have a specific focus on IT skills and improving their knowledge of software in preparation for further study in education and employment for the future. The use of the Word processor is particularly useful for completing coursework and assignments in education.
		Key Knowledge
		 Learning the features of a word processor. Licensing of appropriate images. Credibility of sources. Blogging. Promoting a cause.
		Key Vocabulary
		Fonts, Images, Licensing, Causes, Credibility.
		Sources
		Teams/OneDrive Assignment – Using Media, gaining support for a cause.
		Curriculum Assessment tasks
		Assessment Rubric in Teams/OneDrive. There is an assessment task which are peer and teacher assessed (See Teams/OneDrive Assignment).
		Personal Development links
		Understand how word-processing is used in the workplace. Much of the work is based around vocational scenarios.
Summer 2	Contingency and transition	Contingency