

Scheme of Learning – Long Term Planning

Subject: Computing		Key stage: KS3	
Year	Autumn Term	Spring Term	Summer Term
7	<u>Autumn 1: Computer Basics</u> E-Safety Login on to the Presdales systems How to search safely online Baseline test and Multiple-choice test	<u>Spring 1: Computer Systems</u> Computer parts Memory: Primary and secondary Operating systems and software Multiple-choice test	<u>Summer 1: Networks and the Internet</u> Types of networks and topologies Network security threats and measures Multiple-choice test
	<u>Autumn 2: Collecting and Presenting Data</u> Microsoft office use including: Word, Excel, PowerPoint, and Publisher Written test	<u>Spring 2: SCRATCH Programming</u> How to use SCRATCH including: animation and game design Written test	<u>Summer 2: End of year test and SCRATCH</u> Written end of year test Game creation on SCRATCH
8	<u>Autumn 1: Data Representation</u> E-Safety Binary and logic Images and sound files Multiple-choice test	<u>Spring 1: Animation</u> Flipbooks Stop motion SCRATCH Multiple-choice test	<u>Summer 1: Pre-Production</u> Mood boards Mind maps Storyboards Multiple-choice test
	<u>Autumn 2: Programming Techniques with Python</u> How to use Python including: if statements, while loops, and subroutines Written test	<u>Spring 2: Algorithms</u> Computational thinking Flow diagrams Written test	<u>Summer 2: End of year test and Programming</u> Written end of year test Python programming challenges
9	<u>Autumn 1: Project Planning</u> E-Safety Planning projects: client briefs, Gantt charts, risk assessments Multiple-choice test	<u>Spring 1: Key Skills for Work and Life</u> Digital or Technical skills Professional emails Online banking Skill development	<u>Summer 1: Cryptography and revision</u> How to make a break codes using ciphers Revision
	<u>Autumn 2: Python</u> For loops Python challenges Written test	<u>Spring 2: GIMP (GNU Image Manipulation Program)</u> Superimposing images Colour manipulation Written test	<u>Summer 2: End of year test and Projects</u> Written end of year test Project work on Python, GIMP, Micro:bit or skills.