



## Computing Curriculum Overview—Key Stage 3



Year	Block1	Block 2	Block 3	Block 4	Block 5	Block 6
7	<p><b>Topic:</b> Digital Skills and Security</p> <p><b>Resources:</b> Computers/ Google Classroom//MS Office.</p> <p><b>Focus:</b> effective use of passwords/using email.</p> <p><b>Outcome:</b> User guide.</p> <p><b>Duration:</b> 3 lessons</p>	<p><b>Topic:</b> Digital Skills and Security</p> <p><b>Resources:</b> Computers/ Google Classroom//MS Office.</p> <p><b>Focus:</b> Cloud storage/ management of files and folders.</p> <p><b>Outcome:</b> User guide.</p> <p><b>Duration:</b> 3 lessons</p>	<p><b>Topic:</b> E-safety / Introduction to Python</p> <p><b>Resources:</b> Computers/ Google Classroom//MS Office.</p> <p><b>Focus:</b> Digital footprint/ social media.</p> <p><b>Outcome:</b> Google Classroom answer files.</p> <p><b>Duration:</b> 3 lessons</p>	<p><b>Topic:</b> E-safety / Introduction to Python</p> <p><b>Resources:</b> Computers/ Google Classroom//MS Office.</p> <p><b>Focus:</b> Viruses/phishing/ copyright laws.</p> <p><b>Outcome:</b> Develop a quiz.</p> <p><b>Duration:</b> 3 lessons</p>	<p><b>Topic:</b> Scratch Programming</p> <p><b>Resources:</b> Scratch V4, Scratch user guides.</p> <p><b>Focus:</b> How to use the Scratch programming software.</p> <p><b>Outcome:</b> Scratch executable files.</p> <p><b>Duration:</b> 3 lessons</p>	<p><b>Topic:</b> Scratch Programming</p> <p><b>Resources:</b> Scratch V4, Scratch user guides.</p> <p><b>Focus:</b> How to use our computational thinking skills to develop solutions.</p> <p><b>Outcome:</b> Scratch executable files.</p> <p><b>Duration:</b> 3 lessons</p>
8	<p><b>Topic:</b> Hardware/ Network Fundamentals and Binary</p> <p><b>Resources:</b> Computers/ google classroom/MS Office.</p> <p><b>Focus:</b> Hardware fundamentals, binary and denary.</p> <p><b>Outcome:</b> Code a quiz on hardware and binary/ denary.</p> <p><b>Duration:</b> 3 lessons</p>	<p><b>Topic:</b> Hardware/ Network Fundamentals and Binary with Programming</p> <p><b>Resources:</b> Computers/ Google Classroom/MS Office/Python software.</p> <p><b>Focus:</b> Internet structure, how LANs operate, network hardware.</p> <p><b>Outcome:</b> Code a quiz on hardware and networks.</p> <p><b>Duration:</b> 3 lessons</p>	<p><b>Topic:</b> Planning Algorithms and Programming</p> <p><b>Resources:</b> Computers/ Google Classroom//MS Office/Python software.</p> <p><b>Focus:</b> Designing algorithms, flow diagrams.</p> <p><b>Outcome:</b> Algorithms and designs.</p> <p><b>Duration:</b> 3 lessons</p>	<p><b>Topic:</b> Planning Algorithms and Programming</p> <p><b>Resources:</b> Computers/ Google Classroom//MS Office/Python software</p> <p><b>Focus:</b> Programming concepts.</p> <p><b>Outcome:</b> Writing a program.</p> <p><b>Duration:</b> 3 lessons</p>	<p><b>Topic:</b> Planning Algorithms and Programming</p> <p><b>Resources:</b> Computers/ Google Classroom/MS Office/Python software.</p> <p><b>Focus:</b> Programming concepts Inc. with Scratch.</p> <p><b>Outcome:</b> Writing programs.</p> <p><b>Duration:</b> 3 lessons</p>	<p><b>Topic:</b> Planning Algorithms and Programming</p> <p><b>Resources:</b> Computers/ Google Classroom/MS Office/Python software.</p> <p><b>Focus:</b> Programming concepts Inc. with Scratch.</p> <p><b>Outcome:</b> Writing programs.</p> <p><b>Duration:</b> 3 lessons</p>



## Computing Curriculum Overview—Key Stage 3 and 4



Year	Block1	Block 2	Block 3	Block 4	Block 5	Block 6
9	<b>Topic:</b> Planning Algorithms and Programming <b>Resources:</b> Computers/ Google Classroom/MS Office/Python software. <b>Focus:</b> Programming concepts Inc. with Scratch. <b>Outcome:</b> Writing programs. <b>Duration:</b> 3 lessons	<b>Topic:</b> Planning Algorithms and Programming <b>Resources:</b> Computers/ Google Classroom/MS Office/Python software. <b>Focus:</b> Programming concepts Inc. with Scratch. <b>Outcome:</b> Writing programs.	<b>Topic:</b> Website Design/ Development <b>Resources:</b> Notepad / Google Sites / MS Office. <b>Focus:</b> Features of successful websites. <b>Outcome:</b> Reviews of existing websites. <b>Duration:</b> 3 lessons	<b>Topic:</b> Website Design/ Development <b>Resources:</b> Notepad / Google Sites / MS Office. <b>Focus:</b> Development of website. <b>Outcome:</b> Development of website for business. <b>Duration:</b> 3 lessons	<b>Topic:</b> Website Design/ Development <b>Resources:</b> Notepad / Google Sites / MS Office. <b>Focus:</b> Development of website including use of HTML. <b>Outcome:</b> Development of website for business. <b>Duration:</b> 3 lessons	<b>Topic:</b> Ethics and Issues <b>Resources:</b> MS Office, Python. <b>Focus:</b> Legislation, ethics and the environment. <b>Outcome:</b> Presentation, coded activity, worksheets. <b>Duration:</b> 3 lessons
10	<b>Topic:</b> Section 4 Algorithmic Thinking <b>Resources:</b> MS Office, Python, System performance, storage, software. <b>Outcome:</b> Python quiz and worksheet. <b>Duration:</b> 10 lessons	<b>Topic:</b> Section 5 Programming <b>Resources:</b> Python. <b>Focus:</b> Strings and program flow. <b>Outcome:</b> A series of programs and theory worksheets. <b>Duration:</b> 10 lessons	<b>Topic:</b> Section 5 Programming <b>Resources:</b> Python. <b>Focus:</b> Boolean operators, arrays, file handling. <b>Outcome:</b> A series of programs and theory worksheets. <b>Duration:</b> 10 lessons	<b>Topic:</b> Section 6 Design Testing and IDEs / Section 3 Issues in Computing <b>Resources:</b> MS Office, Python. <b>Focus:</b> Defensive Design, Testing, Ethics, Legislation. <b>Outcome:</b> Worksheets, test plans for debugging, coded activity. <b>Duration:</b> 10 lessons	<b>Topic:</b> Section 1 Components of a Computer System <b>Resources:</b> MS Office, Python. <b>Focus:</b> CPU, memory, System performance, storage, software. <b>Outcome:</b> Python quiz and worksheet. <b>Duration:</b> 10 lessons	<b>Topic:</b> Section 2 Networks <b>Resources:</b> MS Office, Python. <b>Focus:</b> WANS and LANs, network hardware. <b>Outcome:</b> Worksheets, a design for a network, python quiz. <b>Duration:</b> 10 lessons
11	<b>Topic:</b> Section 7 Data Representation <b>Resources:</b> MS Office, Python. <b>Focus:</b> Hexadecimal, compression. <b>Outcome:</b> Python Quiz, sample exam and worksheets. <b>Duration:</b> 10 lessons	<b>Topic:</b> Section 7 Data Representation <b>Resources:</b> MS Office, Python. <b>Focus:</b> Hexadecimal, compression. <b>Outcome:</b> Python Quiz, sample exam and worksheets. <b>Duration:</b> 10 lessons	<b>Topic:</b> Reflection and Exam Practice <b>Resources:</b> MS Office, Python, exampro, exam questions. <b>Focus:</b> Exam practice. <b>Outcome:</b> Exam technique. <b>Duration:</b> Until main exams	<b>Topic:</b> Reflection and Exam Practice <b>Resources:</b> MS Office, Python, exampro, exam questions. <b>Focus:</b> Exam practice . <b>Outcome:</b> Exam technique. <b>Duration:</b> Until main exams		