

## 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> E-safety / Introduction to Python</p> <p><b>Resources:</b> Computers/ Google Classroom//MS Office</p> <p><b>Focus:</b> Applying E Safety knowledge to learn how to code</p> <p><b>Outcome:</b> Develop a quiz</p> <p><b>Duration:</b> 3 lessons</p>	<p><b>Topic:</b> Applying skills for careers documentation and life skills</p> <p><b>Resources:</b> Computers/ Google Classroom/MS Office</p> <p><b>Focus:</b> Qualifications, CV development</p> <p><b>Outcome:</b> Create a CV</p> <p><b>Duration:</b> 3 lessons</p>
8	<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 micro-computers</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 micro-computers</p> <p><b>Outcome:</b> Writing programs</p> <p><b>Duration:</b> 3 lessons</p>	<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>



## Computing Curriculum Overview—Key Stage 3 and 4



Year	Block1	Block 2	Block 3	Block 4	Block 5	Block 6
9	<b>Topic:</b> Developing documentation for business <b>Resources:</b> MS Office Focus: letter structure, logo design <b>Outcome:</b> Business letter, logo design <b>Duration:</b> 3 lessons	<b>Topic:</b> Managing finances Resources: MS Office, Python <b>Focus:</b> Using or developing software to calculate finances <b>Outcome:</b> Spreadsheet/program development <b>Duration:</b> 3 lessons	<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> Managing Data Resources: Python MS Office <b>Focus:</b> Storing and searching data <b>Outcome:</b> flat file database/program development <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		