Computing Curriculum Overview—Key Stage 3

Year	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6
7	**Topic**: Digital skills and security **Resources**: Computers/ Google Classroom//MS Office **Focus**: effective use of passwords/using email **Outcome**: User guide **Duration**: 3 lessons	**Topic:** Digital skills and security **Resources**: Computers/ Google Classroom//MS Office **Focus**: Cloud storage/ management of files and folders **Outcome**: User guide **Duration**: 3 lessons	**Topic:** E-safety / Introduction to Python **Resources**: Computers/Google Classroom//MS Office **Focus**: Digital footprint/social media **Outcome**: Google Classroom answer files **Duration**: 3 lessons	**Topic:** E-safety / Introduction to Python **Resources**: Computers/ Google Classroom//MS Office **Focus**: Viruses/phishing/ copyright laws **Outcome**: Develop a quiz **Duration**: 3 lessons	**Topic**: E-safety / Introduction to Python **Resources**: Computers/ Google Classroom//MS Office **Focus**: Applying E Safety knowledge to learn how to code **Outcome**: Develop a quiz **Duration**: 3 lessons	**Topic**: Applying skills for careers documentation and life skills **Resources**: Computers/ Google Classroom/MS Office **Focus**: Qualifications, CV development **Outcome**: Create a CV **Duration**: 3 lessons
8	**Topic**: Hardware/ network fundamentals and binary **Resources**: Computers/ google classroom/MS Office **Focus**: Hardware fundamentals, binary and denary **Outcome**: Code a quiz on hardware and binary/denary **Duration**: 3 lessons	**Topic**: Hardware/ network fundamentals and binary with programming **Resources**: Computers/ Google Classroom/MS Office/Python software **Focus**: Internet structure, how LANs operate, network hardware **Outcome**: Code a quiz on hardware and networks **Duration**: 3 lessons	**Topic**: Planning algorithms and programming **Resources**: Computers/Google Classroom//MS Office/ Python software **Focus**: Designing algorithms, flow diagrams **Outcome**: Algorithms and designs **Duration**: 3 lessons	**Topic**: Planning algorithms and programming **Resources**: Computers/ Google Classroom//MS Office/Python software **Focus**: Programming concepts **Outcome**: Writing a program **Duration**: 3 lessons	**Topic**: Planning algorithms and programming **Resources**: Computers/ Google Classroom/MS Office/Python software **Focus**: Programming concepts Inc. with micro-computers **Outcome**: Writing programs **Duration**: 3 lessons	**Topic**: Planning algorithms and programming **Resources**: Computers/ Google Classroom/MS Office/Python software **Focus**: Programming concepts Inc. with micro-computers **Outcome**: Writing programs **Duration**: 3 lessons

Computing Curriculum Overview—Key Stage 3 and 4

9	**Topic**: Programming **Resources**: Idle v3, Scratch 1.4 **Focus**: Practicing key programming fundamentals **Outcome**: Produce solutions to programming challenges **Duration**: 3 lessons	**Topic**: Programming **Resources**: Idle v3, Scratch 1.4 **Focus**: Practicing key programming fundamentals **Outcome**: Produce solutions to programming challenges **Duration**: 3 lessons	**Topic**: Web Development using HTML **Resources**: Notepad **Focus**: What makes an effective web page design **Outcome**: Design for a web page **Duration**: 3 lessons	**Topic**: Web Development using HTML **Resources**: Notepad **Focus**: How to use the HTML language to code a web page. **Outcome**: Coded web page. **Duration**: 3 lessons	**Topic**: Ethics and Issues **Resources**: MS Office, Python **Focus**: Legislation, ethics and the environment **Outcome**: Presentation, coded activity, worksheets **Duration**: 3 lessons	**Topic**: Ethics and Issues **Resources**: MS Office, Python **Focus**: Legislation, ethics and the environment **Outcome**: Coded quiz on issues. **Duration**: 3 lessons
10	**Topic**: Section 4 Algorithmic thinking **Resources**: MS Office, Python, System performance, storage, software. **Outcome**: Python quiz and worksheet. **Duration**: 10 lessons	**Topic**: Section 5 Programming **Resources**: Python **Focus**: Strings and program flow **Outcome**: A series of programs and theory worksheets **Duration**: 10 lessons	**Topic**: Section 5 Programming **Resources**: Python **Focus**: Boolean operators, arrays, file handling **Outcome**: A series of programs and theory worksheets **Duration**: 10 lessons	**Topic**: Section 6 Design testing and IDEs / Section 3 issues in computing **Resources**: MS Office, Python **Focus**: Defensive design, testing, ethics, legislation **Outcome**: Worksheets, test plans for debugging, coded activity **Duration**: 10 lessons	**Topic**: Section 1 Components of a computer system **Resources**: MS Office, Python **Focus**: CPU, memory, System performance, storage, software. **Outcome**: Python quiz and worksheets **Duration**: 10 lessons	**Topic**: Section 2 Networks **Resources**: MS Office, Python **Focus**: WANS and LANs, network hardware. **Outcome**: Worksheets, a design for a network, python quiz **Duration**: 10 lessons
11	**Topic**: Section 7 Data representation **Resources**: MS Office, Python **Focus**: Hexadecimal, compression. **Outcome**: Python Quiz, sample exam and worksheets **Duration**: 10 lessons	**Topic**: Section 7 Data representation **Resources**: MS Office, Python **Focus**: Hexadecimal, compression. **Outcome**: Python Quiz, sample exam and worksheets **Duration**: 10 lessons	**Topic**: Reflection and exam practice **Resources**: MS Office, Python, exampro , exam questions **Focus**: Exam practice **Outcome**: Exam technique **Duration**: Until main exams	**Topic**: Reflection and exam practice **Resources**: MS Office, Python, exampro, exam questions **Focus**: Exam practice **Outcome**: Exam technique **Duration**: Until main exams		