

**Key Stage 3**

**Digital Literacy**

Year	Teaching block 1	Teaching block 2	Teaching block 3
7	<p><b>Unit Title – Digital Literacy Foundations</b></p> <ul style="list-style-type: none"> <li>- Getting organised with files and folders</li> <li>- Staying safe online</li> <li>- Exploring advances in computing</li> <li>- Presenting your work well</li> <li>- Using spreadsheets to analyse data</li> </ul>	<p><b>Unit Title – Algorithms and Problem Solving</b></p> <ul style="list-style-type: none"> <li>- Finding out how algorithms work</li> <li>- Making flowcharts to describe a process</li> <li>- Using algorithms to solve puzzles</li> <li>- Creating adventures with flowcharts</li> <li>- Designing a quiz and keeping score</li> </ul>	<p><b>Unit Title – Programming Concepts</b></p> <ul style="list-style-type: none"> <li>- Converting flowcharts into Python code</li> <li>- Inputting data and calculating in Python</li> <li>- Drawing shapes and patterns using Turtle</li> <li>- Creating a guessing game in Python</li> <li>- Building a turtle race simulator</li> </ul>
8	Teaching block 4	Teaching block 5	Teaching block 6
	<p><b>Unit Title – Inside Your Computer</b></p> <ul style="list-style-type: none"> <li>- Talking like a computer; in binary</li> <li>- Understanding the role of components</li> <li>- Exploring careers in computing</li> <li>- Identifying good interface design</li> <li>- Designing a new smartphone app</li> </ul>	<p><b>Unit Title – Programming Mini Projects</b></p> <ul style="list-style-type: none"> <li>- Converting flowcharts into Python code</li> <li>- Inputting data and calculating in Python</li> <li>- Creating a guessing game in Python</li> <li>- Building a turtle race simulator</li> <li>- Designing and developing a new game</li> </ul>	<p><b>Unit Title – Analysing Data</b></p> <ul style="list-style-type: none"> <li>- Exploring real-World data</li> <li>- Using spreadsheets to analyse data</li> <li>- Understanding databases</li> <li>- Building a charity database</li> <li>- Adding queries, reports and charts</li> </ul>
9	Teaching block 7	Teaching block 8	
	<p><b>Unit Title – Programming and Data Analysis</b></p> <ul style="list-style-type: none"> <li>- Inputting data and calculating in Python</li> <li>- Creating and improving simple games</li> <li>- Decomposing a problem into a plan</li> <li>- Using “if”, “for” and “while” in Python</li> <li>- Understanding databases</li> <li>- Building a charity database</li> <li>- Adding queries, reports and charts</li> </ul>	<p><b>Unit Title – How Computers Work</b></p> <ul style="list-style-type: none"> <li>- Understanding binary and components</li> <li>- Exploring how computers are used</li> <li>- Identifying good interface design</li> <li>- Designing a new smartphone app</li> <li>- Understanding processors and languages</li> <li>- Learning about the Little Man Computer</li> <li>- Solving problems using an LMC simulator</li> </ul>	