

Year 7		
Autumn Term 2020	Spring Term 2021	Summer Term 2021
<p style="text-align: center;"><b><u>AUT1</u></b></p> <p><b>Unit: Scratch Programming (MCA)</b></p> <p><b>Focus:</b> Introduction to programming using a block based programming environment. Students learn programming concepts such as sequence, selection iteration.</p> <p><b>Syllabus Links:</b> <b>Assessment Method:</b> Booklet, questioning, MCQ, observation, assessment</p>	<p style="text-align: center;"><b><u>SPR1</u></b></p> <p><b>Unit: Mobile App Development</b></p> <p><b>Focus:</b> Using a block based programming environment to create a mobile phone application which could be downloaded onto a handset.</p> <p><b>Students learn programming whilst creating an app for an environment they are familiar with.</b></p> <p><b>Syllabus Links:</b> <b>Assessment Method:</b> Booklet, questioning, MCQ, observation, presentation of work</p>	<p style="text-align: center;"><b><u>SUM1</u></b></p> <p><b>Unit: Python Basics (PGOnline)</b></p> <p><b>Focus:</b> Learning to program using a textual programming environment (Python). Students learn programming and computational thinking concepts (abstraction, decomposition)</p> <ul style="list-style-type: none"> <li>- Data / Variables</li> <li>- Numbers and Arithmetic</li> <li>- Selection</li> <li>- Algorithms</li> <li>- Iteration</li> <li>- Search</li> </ul> <p><b>Syllabus Links:</b> <b>Assessment Method:</b> Booklet, questioning, MCQ, observation, presentation of work</p>
<p style="text-align: center;"><b><u>AUT2</u></b></p> <p><b>Unit: Microbit Madness (ComputerScienceUK)</b></p> <p><b>Focus:</b> Students use small physical devices (microbits) to develop their programming skills. Students continue to use a block based programming environment to create digital dice, compasses, a handheld controller.</p> <p>Students will be introduced to textual programming environment based on micro-Python.</p> <p><b>Syllabus Links:</b> <b>Assessment Method:</b> Booklet, questioning, MCQ, observation, presentation of work, assessment</p>	<p style="text-align: center;"><b><u>SPR2</u></b></p> <p><b>Unit: Animation – Blender (tbd)</b></p> <p><b>Focus:</b> Students use animation software to plan and create animations</p> <p><b>Syllabus Links:</b> <b>Assessment Method:</b> Booklet, questioning, MCQ, observation, presentation of work, assessment, assessment</p>	<p style="text-align: center;"><b><u>SUM2</u></b></p> <p><b>Unit: Microbit Project using microPython</b></p> <p><b>Focus: Students use a textual programming environment and a micro-bit to build a 'product'</b></p> <p><b>Syllabus Links:</b> <b>Assessment Method:</b> Booklet, questioning, MCQ, observation, presentation of work</p>

