



## Curriculum Overview: IT/Computing

Year Group	Autumn Term		Spring Term		Summer Term		Useful information software/websites
<b>Year 7</b>	<b>Topic 1: Safety and responsibility</b> <ul style="list-style-type: none"> <li>Setting up</li> <li>Online safety</li> <li>Bias and reliability</li> <li>The law and ethics</li> <li>Search engines</li> <li>Hardware vs software</li> </ul>	<b>Topic 2: Networks</b> <ul style="list-style-type: none"> <li>Computer networks and protocols</li> <li>Network hardware</li> <li>Types of networks</li> <li>The internet</li> </ul>	<b>Topic 3: Computational thinking &amp; Algorithms</b> <ul style="list-style-type: none"> <li>Decomposition</li> <li>Abstraction</li> <li>Pattern recognition</li> <li>Algorithm</li> <li>Searching and sorting algorithms</li> </ul>	<b>Topic 4: Edublocks programming</b> <ul style="list-style-type: none"> <li>Variables</li> <li>Sequencing</li> <li>Selection</li> <li>iteration</li> </ul>	<b>Topic 5: User interface design</b> <ul style="list-style-type: none"> <li>Introduction to UI</li> <li>Designing a graphical user interface</li> </ul>	<b>Topic 6: Modelling Data - Spreadsheets</b> <ul style="list-style-type: none"> <li>The purpose of a spreadsheet</li> <li>Formula and functions</li> <li>Goal seek</li> <li>Macros</li> </ul>	<a href="#">SCRATCH programming</a> <a href="#">Edublocks</a> <a href="#">Teach ICT</a> <a href="#">Oak academy</a> <a href="#">BBC Bitesize</a> Outlook <a href="#">Kodu gaming</a>
<b>Year 8</b>	<b>Topic 1: Computer Systems</b> <ul style="list-style-type: none"> <li>How a computer system works</li> <li>Operating systems</li> <li>Physical components</li> </ul>	<b>Topic 2: Number systems and Memory</b> <ul style="list-style-type: none"> <li>Binary</li> <li>Denary</li> <li>Hexadecimal</li> <li>Converting between systems</li> </ul>	<b>Topic 3: User interface – Rocket Cake</b> <ul style="list-style-type: none"> <li>Navigation menu</li> <li>Layout and structure</li> <li>GUI &amp; HCI</li> <li>Hyperlinks</li> </ul>	<b>Topic 4: Data Handling - SQL</b> <ul style="list-style-type: none"> <li>Handling data</li> <li>Sorting and filtering</li> <li>Relationships</li> <li>Queries</li> </ul>	<b>Topic 5: Programming – Python Basics</b> <ul style="list-style-type: none"> <li>Print()</li> <li>Input()</li> <li>Syntax</li> <li>Datatypes</li> </ul>	<b>Topic 6: Cybersecurity</b> <ul style="list-style-type: none"> <li>Social engineering</li> <li>Malware</li> <li>Protection against malware</li> </ul>	<a href="#">SCRATCH programming</a> <a href="#">Edublocks</a> <a href="#">Teach ICT</a> <a href="#">Oak academy</a> <a href="#">BBC Bitesize</a> Outlook <a href="#">Kodu gaming</a>
<b>Year 9</b> Digital information Technology	<b>Component 1:</b> Exploring User Interface Design Principles and Project Planning Techniques <b>(Practise sample assessment)</b> <ul style="list-style-type: none"> <li><b>A</b> Understand interface design for individuals and organisations</li> <li><b>B</b> Be able to use project planning techniques to plan, design and develop a user interface</li> <li><b>C</b> Be able to review a user interface.</li> </ul>		<b>Component 2:</b> Collecting, Presenting and Interpreting Data <b>(Practise sample assessment)</b> <ul style="list-style-type: none"> <li><b>A</b> Understand how data is collected and used by organisations and its impact on individuals</li> <li><b>B</b> Be able to create a dashboard using data manipulation tools</li> <li><b>C</b> Be able draw conclusions and review data presentation methods</li> </ul>		<b>Component 3:</b> Effective Digital Working Practices <b>(Practise sample Exam)</b> <ul style="list-style-type: none"> <li><b>AO1/2/3</b> Apply and demonstrate knowledge and an understanding of facts, terms, processes and issues in relation to digital information technology</li> <li><b>AO4</b> Make connections with the concepts, issues, terms and processes in digital information technology</li> </ul>		<a href="#">Teach ICT</a> <a href="#">Oak academy</a> <a href="#">BBC Bitesize</a> <a href="#">Knowitallninja</a> Outlook <a href="#">CraigDave</a> <a href="#">MrBrownCS</a>



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<b>Year 10 Creative IMEDIA</b>	<p><b>Unit R094: Visual identity and digital graphics</b></p> <ul style="list-style-type: none"> <li>TOPIC 1: Develop visual identity</li> </ul> <p><b>Unit R093: Creative iMedia in the media industry</b></p> <ul style="list-style-type: none"> <li>TOPIC 1: The media industry</li> <li>TOPIC 2: Factors influencing product design</li> </ul>	<p><b>Unit R094: Visual identity and digital graphics</b></p> <ul style="list-style-type: none"> <li>TOPIC 2: Plan digital graphic for product</li> </ul> <p><b>Unit R093: Creative iMedia in the media industry</b></p> <ul style="list-style-type: none"> <li>TOPIC 1: The media industry</li> <li>TOPIC 2: Factors influencing product design</li> </ul>	<p><b>Unit R094: Visual identity and digital graphics</b></p> <ul style="list-style-type: none"> <li>TOPIC 3: Create visual identity and digital graphics</li> </ul> <p><b>INTERNAL ASSESSMENT</b></p> <p><b>Unit R096: Animation with audio</b></p> <ul style="list-style-type: none"> <li>TOPIC 1: Plan animation with audio</li> </ul>	<p><a href="#">Teach ICT</a>  <a href="#">Oak academy</a>  <a href="#">BBC Bitesize</a>  <a href="#">Knowitallninja</a>            Outlook  <a href="#">MrBrownCS</a>  <a href="#">StudyIMEDIA</a>            Adobe Photoshop            Adobe animate            OCR Past papers</p>
<b>Year 11 Creative IMEDIA</b>	<p><b>Unit R096: Animation with audio</b></p> <ul style="list-style-type: none"> <li>TOPIC 1: Plan animation with audio</li> <li>TOPIC 2: Create animation with audio</li> <li>TOPIC 3: Review animation with audio</li> </ul> <p><b>INTERNAL ASSESSMENT</b></p>	<p><b>Unit R093: Creative iMedia in the media industry</b></p> <ul style="list-style-type: none"> <li>TOPIC 1: The media industry</li> <li>TOPIC 2: Factors influencing product design</li> </ul>	<p><b>Unit R093: Creative iMedia in the media industry</b></p> <ul style="list-style-type: none"> <li>TOPIC 3: Pre-production planning</li> <li>TOPIC 4: Distribution considerations</li> </ul> <p><b>EXTERNAL EXAM</b></p>	<p><a href="#">Teach ICT</a>  <a href="#">Oak academy</a>  <a href="#">BBC Bitesize</a>  <a href="#">Knowitallninja</a>            Outlook  <a href="#">MrBrownCS</a>  <a href="#">StudyIMEDIA</a>            Adobe Photoshop            Adobe animate            OCR Past papers</p>