

# 1c. Curriculum Overview: Computing



Year 7 Computing			
Refer to	Term 1 – September to December	Term 2 – January to March	Term 3 – April to July
KS2/3 NC 3.2, 3.3, 3.4, 3.5, 3.7, 3.8 & 3.9	<p><b>Collaborating online respectfully</b></p> <p><u>What are the students learning?</u></p> <ul style="list-style-type: none"> <li>• Get familiar with the school network</li> <li>• Important online safety issues                             <ul style="list-style-type: none"> <li>◦ Respecting others online</li> <li>◦ Spotting strangers</li> <li>◦ Effects of cyberbullying</li> </ul> </li> <li>• Using presentation software effectively</li> </ul> <p><u>What are the key assessments?</u></p> <ul style="list-style-type: none"> <li>• Formative assessment in lessons</li> <li>• Summative assessment during whole year assessment week</li> </ul> <p><u>What are the key homework pieces?</u></p> <ul style="list-style-type: none"> <li>• 20 question Forms quiz</li> </ul>	<p><b>Using media to gain support for a cause</b></p> <p><u>What are the students learning?</u></p> <ul style="list-style-type: none"> <li>• Understanding Information Technology</li> <li>• Digital Literacy skills                             <ul style="list-style-type: none"> <li>◦ Sourcing and referencing</li> </ul> </li> <li>• Software Formatting skills</li> <li>• Licensing</li> <li>• Legal issues</li> </ul> <p><u>What are the key assessments?</u></p> <ul style="list-style-type: none"> <li>• Formative assessment in lessons</li> <li>• Summative assessment during whole year assessment week</li> </ul> <p><u>What are the key homework pieces?</u></p> <ul style="list-style-type: none"> <li>• 20 question Forms quiz</li> </ul>	<p><b>Programming essentials: Introduction to Scratch</b></p> <p><u>What are the students learning?</u></p> <ul style="list-style-type: none"> <li>• Sequence</li> <li>• Variables</li> <li>• Selection</li> <li>• Operators</li> <li>• Iteration</li> <li>• Sub-routines</li> </ul> <p><u>What are the key assessments?</u></p> <ul style="list-style-type: none"> <li>• Formative assessment in lessons</li> <li>• Summative assessment during whole year assessment week</li> </ul> <p><u>What are the key homework pieces?</u></p> <ul style="list-style-type: none"> <li>• 20 question Forms quiz</li> </ul>
	<p><b>Networks</b></p> <p><u>What are the students learning?</u></p> <ul style="list-style-type: none"> <li>• Defining a network</li> <li>• Benefits of networking</li> <li>• Data transmission &amp; protocols</li> <li>• Hardware</li> <li>• Wired &amp; Wireless transmission</li> </ul>	<p><b>IT Skills</b></p> <p><u>What are the students learning?</u></p> <ul style="list-style-type: none"> <li>• Usernames and passwords</li> <li>• Cut, Copy &amp; Paste</li> <li>• File and folder structures</li> <li>• Renaming files</li> <li>• Save &amp; SaveAs</li> </ul>	



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<ul style="list-style-type: none"><li>• Internet services</li></ul> <p><u>What are the key assessments?</u></p> <ul style="list-style-type: none"><li>• Formative assessment in lessons</li><li>• Summative assessment during whole year assessment week</li></ul> <p><u>What are the key homework pieces?</u></p> <ul style="list-style-type: none"><li>• 20 question Forms quiz</li></ul>	<ul style="list-style-type: none"><li>• Formatting principles</li></ul> <p><u>What are the key assessments?</u></p> <ul style="list-style-type: none"><li>• Formative assessment in lessons</li><li>• Summative assessment during whole year assessment week</li></ul> <p><u>What are the key homework pieces?</u></p> <ul style="list-style-type: none"><li>• 20 question Forms quiz</li></ul>
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Year 8 Computing			
Refer to	Term 1 – September to December	Term 2 – January to March	Term 3 – April to July
KS3 NC 3.1, 3.4, 3.5, 3.6, 3.7 & 3.8	<p><b>Spreadsheets</b></p> <p><u>What are the students learning?</u></p> <ul style="list-style-type: none"> <li>• Spreadsheet set up</li> <li>• basic formulas</li> <li>• Modelling data</li> <li>• Graphs &amp; charts</li> <li>• Sources of data</li> <li>• Complex functions</li> </ul> <p><u>What are the key assessments?</u></p> <ul style="list-style-type: none"> <li>• Formative assessment in lessons</li> <li>• Summative assessment during whole year assessment week</li> </ul> <p><u>What are the key homework pieces?</u></p> <ul style="list-style-type: none"> <li>• 20 question Forms quiz</li> </ul>	<p><b>Representations</b></p> <p><u>What are the students learning?</u></p> <ul style="list-style-type: none"> <li>• Uses of data</li> <li>• Binary</li> <li>• ASCII</li> <li>• Binary conversion</li> <li>• Bits, Bytes and sizes</li> <li>• Conversion &amp; calculation between sizes</li> </ul> <p><u>What are the key assessments?</u></p> <ul style="list-style-type: none"> <li>• Formative assessment in lessons</li> <li>• Summative assessment during whole year assessment week</li> </ul> <p><u>What are the key homework pieces?</u></p> <ul style="list-style-type: none"> <li>• 20 question Forms quiz</li> </ul>	<p><b>Computer systems</b></p> <p><u>What are the students learning?</u></p> <ul style="list-style-type: none"> <li>• Multi-purpose machines</li> <li>• Hardware &amp; software</li> <li>• How computing systems operate</li> <li>• Physical components</li> <li>• Operating system</li> <li>• Artificial Intelligence</li> </ul> <p><u>What are the key assessments?</u></p> <ul style="list-style-type: none"> <li>• Formative assessment in lessons</li> <li>• Summative assessment during whole year assessment week</li> </ul> <p><u>What are the key homework pieces?</u></p> <ul style="list-style-type: none"> <li>• 20 question Forms quiz</li> </ul>



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<b>Developing for the web</b>	<b>IT Skills development</b>
<p data-bbox="219 347 600 375"><u>What are the students learning?</u></p> <ul data-bbox="219 406 728 598" style="list-style-type: none"><li>• Building blocks of the World Wide Web</li><li>• HTML</li><li>• CSS</li><li>• How websites are catalogued</li><li>• How search engines work</li><li>• How results are ranked</li></ul> <p data-bbox="219 635 600 662"><u>What are the key assessments?</u></p> <ul data-bbox="219 694 985 758" style="list-style-type: none"><li>• Formative assessment in lessons</li><li>• Summative assessment during whole year assessment week</li></ul> <p data-bbox="219 794 654 821"><u>What are the key homework pieces?</u></p> <ul data-bbox="219 853 548 885" style="list-style-type: none"><li>• 20 question Forms quiz</li></ul>	<p data-bbox="1182 347 1563 375"><u>What are the students learning?</u></p> <ul data-bbox="1182 406 1496 598" style="list-style-type: none"><li>• The cloud</li><li>• One Drive</li><li>• Office 365 documents</li><li>• Teams app training</li><li>• Email usage</li><li>• One Note</li></ul> <p data-bbox="1182 635 1563 662"><u>What are the key assessments?</u></p> <ul data-bbox="1182 694 1953 758" style="list-style-type: none"><li>• Formative assessment in lessons</li><li>• Summative assessment during whole year assessment week</li></ul> <p data-bbox="1182 794 1617 821"><u>What are the key homework pieces?</u></p> <ul data-bbox="1227 853 1563 885" style="list-style-type: none"><li>• 20 question Forms quiz</li></ul>

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Year 9 Computing			
Refer to	Term 1 – September to December	Term 2 – January to March	Term 3 – April to July
<p>KS3 NC and GCSE Specification 3.1, 3.2, 3.3, 3.6, 3.8 &amp; 3.9</p> <p>OCR Creative iMedia <u>R093:</u> 2.1, 2.2, 3.2, 3.4.1, 3.4.2, 4.2.1, 4.2.2 &amp; 4.2.4 <u>R094:</u> 2.2, 3.1 &amp; 3.2</p>	<p><b>Introduction to Python Programming</b></p> <p><u>What are the students learning?</u></p> <ul style="list-style-type: none"> <li>Text-based programming</li> <li>Input &amp; output programs</li> <li>Arithmetic operations</li> <li>Random modules</li> <li>Selection</li> <li>Iteration</li> </ul> <p><u>What are the key assessments?</u></p> <ul style="list-style-type: none"> <li>Formative assessment in lessons</li> <li>Summative assessment during whole year assessment week</li> </ul> <p><u>What are the key homework pieces?</u></p> <ul style="list-style-type: none"> <li>20 question Forms quiz</li> </ul>	<p><b>Cyber Security</b></p> <p><u>What are the students learning?</u></p> <ul style="list-style-type: none"> <li>Value of data</li> <li>Social engineering</li> <li>Hacking</li> <li>DOS &amp; DDOS</li> <li>Malware</li> <li>Protection methods</li> </ul> <p><u>What are the key assessments?</u></p> <ul style="list-style-type: none"> <li>Formative assessment in lessons</li> <li>Summative assessment during whole year assessment week</li> </ul> <p><u>What are the key homework pieces?</u></p> <ul style="list-style-type: none"> <li>20 question Forms quiz</li> </ul>	<p><b>Mobile app development</b></p> <p><u>What are the students learning?</u></p> <ul style="list-style-type: none"> <li>Apps to solve problems</li> <li>Decomposition</li> <li>GUI</li> <li>Event-driven programming</li> <li>De-bugging</li> <li>Project development</li> </ul> <p><u>What are the key assessments?</u></p> <ul style="list-style-type: none"> <li>Formative assessment in lessons</li> <li>Summative assessment during whole year assessment week</li> </ul> <p><u>What are the key homework pieces?</u></p> <ul style="list-style-type: none"> <li>20 question Forms quiz</li> </ul>

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	<b>Representations: Going audio-visual</b>	<b>IT Skills</b>
	<p><u>What are the students learning?</u></p> <ul style="list-style-type: none"><li>• Pixels &amp; resolution</li><li>• Mixing colour elements</li><li>• Manipulating images</li><li>• Functions of sound</li><li>• Sampling sound</li><li>• Calculating image and sound sizes</li></ul> <p><u>What are the key assessments?</u></p> <ul style="list-style-type: none"><li>• Formative assessment in lessons</li><li>• Summative assessment during whole year assessment week</li></ul> <p><u>What are the key homework pieces?</u></p> <ul style="list-style-type: none"><li>• 20 question Forms quiz.</li></ul>	<p><u>What are the students learning?</u></p> <ul style="list-style-type: none"><li>• Advanced document formatting</li><li>• Image effects</li><li>• Referencing</li><li>• Email etiquette</li><li>• Identifying improvements in electronic work</li><li>• Preparing My documents for GCSE</li></ul> <p><u>What are the key assessments?</u></p> <ul style="list-style-type: none"><li>• Formative assessment in lessons</li><li>• Summative assessment during whole year assessment week</li></ul> <p><u>What are the key homework pieces?</u></p> <ul style="list-style-type: none"><li>• 20 question Forms quiz</li></ul>