

## Year 8

Timing	Unit Title	Key Question	Knowledge	Assessing Understanding
Autumn Half Term 1	A - DTP	How do I produce work of professional quality?	<ul style="list-style-type: none"> <li>Layout – Frames / Flowing / Alignment</li> <li>New tools – shaped frames / transparency</li> <li>Rules for professional layout</li> <li>Fine-tuning and checking work</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>complete a task to a given specification</li> <li>lay out and print an accurate, professional looking document.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>Technical DTP – transparency / shaping</li> <li>Visual literacy – spotting small errors and correcting them</li> </ul> <p><b>Assessment point information</b> Marks for this work will feed into an Assessment Point BM data will be collected on the accuracy of their work and their ability to spot their own mistakes</p>
	Q – Cyber	What is Cyber?	<ul style="list-style-type: none"> <li>Ethical issues in technology</li> <li>Preparation for Cyberfirst</li> <li>The four key areas – Encryption, Programming, Networks and Cyber Security</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>progress is monitored in lessons</li> <li>onscreen puzzles allow progress check.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>Altering code</li> <li>Decrypting text</li> <li>Find security flaws in websites</li> <li>Using a CLI interface</li> </ul> <p><b>Assessment point information</b> The puzzle data feeds into an Assessment Point</p>

Autumn Half Term 2	<b>L - Video Editing</b>	<b>How do I create professional video</b>	<ul style="list-style-type: none"> <li>• Video Editing Basics (for 2024/5 only)</li> <li>• Crossing the Line</li> <li>• Setting up interview questions</li> <li>• Knowledge of VE techniques</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>• progress is monitored in lessons</li> <li>• final videos can be watched.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>• Basic VE skills</li> <li>• Shooting an interview</li> <li>• Merging sources</li> <li>• Editing down for time / problems</li> </ul> <p><b>Assessment point information</b> This feeds into an assessment point</p>
	<b>O - SSI</b>	<b>What are the main programming constructs?</b>	<ul style="list-style-type: none"> <li>• Sequence</li> <li>• Selection</li> <li>• Iteration</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>• progress is monitored in lessons</li> <li>• an onscreen test is used for summary assessment.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>• Python skills</li> <li>• Writing sequential code</li> <li>• Writing code with selection elements</li> <li>• Repeating actions using iteration</li> <li>• Using iteration to make similar actions happen</li> </ul> <p><b>Assessment point information</b> The puzzle data feeds into an Assessment Point</p>

Spring Half term 1	J – SQL 2	How do I query proper databases?	<ul style="list-style-type: none"> <li>• Basic SQL revision</li> <li>• The four SQL lines of a query</li> <li>• Relational database principles</li> <li>• Searching across tables</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>• progress is monitored during lessons</li> <li>• students complete a final exercise which will test their ability in the new techniques.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>• SQL searching: <ul style="list-style-type: none"> <li>○ Cross-table WHERE lines</li> <li>○ ORDER BY Ascending and descending order.</li> </ul> </li> </ul> <p><b>Assessment point information</b> Marks for this work will feed into an Assessment Point BM data will be collected on their progress while working.</p>
	F - Modelling	How do I make my model smarter?	<ul style="list-style-type: none"> <li>• Revision of Y7 work : <ul style="list-style-type: none"> <li>○ Formulae</li> <li>○ Use of SUM / Average</li> <li>○ Conditional formatting</li> <li>○ Named cells</li> </ul> </li> <li>• IF statements and their use</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>• an assessed exercise tests their ability in new and revised areas</li> <li>• progress is regularly measured during lessons via a series of graded exercises.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>• Basic modelling skills from Y7</li> <li>• Ability to use IF statements to give selected values where necessary</li> <li>• Use of Conditional Formatting to make the model as easy to use as possible</li> </ul> <p><b>Assessment point information</b> Marks for the final exercise will feed into the Summer AP, as will data from progress in lessons collected throughout the unit.</p>

Spring Half term 2	K – Apps 3	How do I make my Apps more interesting?	<ul style="list-style-type: none"> <li>● Use of CSS properties to control objects</li> <li>● Use of Javascript to change these properties during execution</li> <li>● Production of a simple game using these facilities</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>● students complete a final task which demonstrates their skills in the new areas</li> <li>● performance is monitored and data collected in lessons as they progress.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>● Using CSS to fix initial values of page objects</li> <li>● Using <i>jQuery</i> to alter these properties</li> <li>● Using variables to hold values to be used in the program</li> <li>● Using <i>GetVariable</i> and <i>SetVariable</i> to deal with variables</li> </ul> <p><b>Assessment point information</b> This will be included in the Summer AP</p>
Summer Half term 1	S - Python 2	What other program techniques can I use?	<ul style="list-style-type: none"> <li>● Parameters</li> <li>● Combining skills</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>● an online test is used for the main content</li> <li>● the free story allows students to demonstrate further skills they have learned.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>● Using parameters to produce accurate graphics</li> <li>● Combining iteration to employ animation</li> <li>● Research and developing their own skills</li> </ul> <p><b>Assessment Point Information</b> Both the test and story contribute to an assessment point</p>

Summer Half term 2	<b>D - Presentations</b>	<b>How do I present a convincing argument</b>	<ul style="list-style-type: none"> <li>● Purpose of screen-based presentations</li> <li>● Internet Gurus and their techniques: <ul style="list-style-type: none"> <li>○ Lessig</li> <li>○ Takahashi</li> <li>○ Godin.</li> </ul> </li> <li>● TGS Method and rules</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>● students present in pairs, and are assessed by their peers and the teacher.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>● Standard presentations skills: <ul style="list-style-type: none"> <li>○ eye contact</li> <li>○ speaking</li> <li>○ rehearsal.</li> </ul> </li> <li>● Technical skills – e.g. timing / obeying the rules / use of colour / consistency</li> </ul> <p><b>Assessment point information</b> Detailed feedback is given to students, which is recorded onto their target sheets.</p>
	<b>X - DIY</b>	<b>How do I learn how to use a new program?</b>	<ul style="list-style-type: none"> <li>● Specific skills for the chosen package</li> <li>● (this could be anything)</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>● Progress in the lesson is recorded</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>● Ability to try things out by themselves</li> <li>● Strategies to explore a new program</li> <li>● Ability to quickly assimilate knowledge and skills for a given task</li> <li>●</li> </ul> <p><b>Assessment point information</b> BM data will be collected on their progress while working, and fed into an Assessment Point.</p>

