



YEAR 8 CURRICULUM SUMMARY



When?	Knowledge	Understanding	Unit Assessment
Autumn Term 1	Modelling Data using Spreadsheets – Advanced Features	Develop a spreadsheet with the Premiership Results. Ensure that formulas are used as appropriate. Clearly identify columns, rows, cells, and cell references in your spreadsheet model Show clearly where conditional formatting has been used. Use some of the supplied scenarios to analyse data and present results using a range of features of spreadsheet software Demonstrate how to use the main toolbars within a spreadsheet package Use some of the supplied scenarios to sort and filter data appropriately	Homework tasks will be set each week which directly relate to the lessons. These can be found on the homework sheet. Pupils will sit an assessment at the end of the unit which will assess their knowledge, understanding and ability to evaluate the topics covered.
Autumn Term 2	Cybersecurity & Data Protection – Threats & Prevention	Data vs Information Worksheet – Customer Data Why is Customer Data valuable to a company? Privacy Policies Research – “What data do social media companies collect about their users?” Consequences? Social Engineering Worksheet – What three pieces of advice would you give someone to stop them from becoming the victim of a phishing attack?	Homework tasks will be set each week which directly relate to the lessons. These can be found on the homework sheet. Pupils will sit an assessment at the end of the unit which will assess their knowledge, understanding and ability to evaluate the topics covered.



		<p>Malware Research – Discuss each of the 6 categories of Malware – Virus, Worm, Ransomware, Trojan, Spyware & Adware</p> <p>Investigate the various threats that an organisation faces by having network and online presence.</p> <p>Prepare a slideshow summarising these threats and identify what organisations can do to minimise the risks from such threats</p>	
Spring Term 1	Programming	<p>Python Challenges</p> <p>– using a variety of both built-in and user-created procedures and functions</p>	<p>Homework tasks will be set each week which directly relate to the lessons. These can be found on the homework sheet.</p> <p>Pupils will sit an assessment at the end of the unit which will assess their knowledge, understanding and ability to evaluate the topics covered.</p>
Spring Term 2	Creating Web Pages using HTML, CSS & JavaScript	<p>Using a range of tags in HTML to create a web page using a text editor and a web browser using the W3Schools website</p> <p>Create CSS style sheets and incorporate them into the HTML document to format web pages to make them more user friendly</p> <p>Try out embedded CSS to be able to compare with CSS stylesheets using the W3Schools website</p> <p>Use JavaScript program to add interactivity to web pages made previously in lessons</p> <p>Experiment with a range of JS commands using the W3Schools website</p>	<p>Homework tasks will be set each week which directly relate to the lessons. These can be found on the homework sheet.</p> <p>Pupils will sit an assessment at the end of the unit which will assess their knowledge, understanding and ability to evaluate the topics covered.</p>



<p>Summer Term 1</p>	<p>Computational Thinking I</p>	<p>Decompose a series of problems using the Teach-ICT website materials Identify pattern recognition opportunities in a series of problems using the Teach-ICT website materials</p> <p>Use abstraction in a series of problems using the Teach-ICT website materials Use algorithmic thinking in a series of problems using the Teach-ICT website materials to enable develop algorithms for problem-solving</p>	<p>Homework tasks will be set each week which directly relate to the lessons. These can be found on the homework sheet.</p> <p>Pupils will sit an assessment at the end of the unit which will assess their knowledge, understanding and ability to evaluate the topics covered.</p>
<p>Summer Term 1</p>	<p>Network Communication & Network Hardware</p>	<p>Explore the various types of network that are possible Investigate the advantages and disadvantages of connecting computing devices together Explore the various types of hardware that can be connected together in a network – the Internet of Things Investigate the software and hardware needed to enable networks to exchange information Investigate how devices communicate - this will require study of circuit switching and packet switching Research the roles that a hub, a switch and a router perform on a network</p>	<p>Homework tasks will be set each week which directly relate to the lessons. These can be found on the homework sheet.</p> <p>Pupils will sit an assessment at the end of the unit which will assess their knowledge, understanding and ability to evaluate the topics covered.</p>