



## Year 7 ICT Curriculum

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Effective Digital Citizens: E-safety, Using computers & the Internet	The Big Project (Basic Skills)	Unifrog	Using Microsoft Office	Input/Outputs & Memory	Algorithms and Decomposition
Knowledge Covered	<ul style="list-style-type: none"> <li>• Use of School System (including MS Teams)</li> <li>• Secure password</li> <li>• Positive use of social media and the internet - self-promotion</li> <li>• Trusting online information</li> <li>• Digital Footprint</li> </ul>	<ul style="list-style-type: none"> <li>• Identify a target audience</li> <li>• Select tools in Word, Presentation software; Desktop publisher, to produce a range of documents for a target audience</li> <li>• Being able to evaluate the effectiveness of their documents</li> </ul>	<ul style="list-style-type: none"> <li>• Who Am I</li> <li>• Exploring Possibilities</li> <li>• What is a career?</li> <li>• Understanding an entrepreneur</li> <li>• What is work life balance?</li> <li>• Career and the future</li> </ul>	<ul style="list-style-type: none"> <li>• Understanding different formatting tools</li> <li>• Inputting pictures</li> <li>• Using copy and paste</li> <li>• Creating basic spreadsheets</li> </ul>	<ul style="list-style-type: none"> <li>• Types of computers</li> <li>• Hardware components of the computer system</li> <li>• Software that run on the hardware</li> <li>• Input, process, and output systems</li> <li>• Networks – packets, routers, switches, internet protocols</li> </ul>	<ul style="list-style-type: none"> <li>• An introduction to algorithms</li> <li>• Computational thinking</li> <li>• Problem solving, decomposition and scratch overview</li> <li>• Game developing</li> </ul>
Online Resources	<ul style="list-style-type: none"> <li>• Microsoft Teams</li> <li>• Teach-ICT</li> <li>• SAM Learning</li> <li>• Unifrog</li> </ul>		<ul style="list-style-type: none"> <li>• Seneca</li> <li>• BBC Bitesize</li> <li>• idea.org.uk</li> </ul>	<ul style="list-style-type: none"> <li>• Code.org</li> <li>• Scratch.mit.edu</li> <li>• Craig n Dave</li> </ul>		



## Year 8 ICT Curriculum

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	<b>E-safety Software and Hardware</b>	<b>Presentation</b>	<b>Unifrog</b>	<b>Using Multi-media: Digital Signage and App Design</b>	<b>Turtle Programming &amp; Algorithms</b>	<b>Text Based Game Programming</b>
Knowledge Covered	<ul style="list-style-type: none"> <li>Personal data – Digital Footprint</li> <li>Appropriate use of software</li> <li>Differences between hardware and software</li> <li>Computer crime &amp; security</li> <li>Using social media positively</li> <li>Internet web browsers and search engines</li> </ul>	<ul style="list-style-type: none"> <li>Understand different uses of Microsoft PowerPoint</li> <li>Designing a appropriate presentation</li> <li>Develop presentation skills with a brief</li> </ul>	<ul style="list-style-type: none"> <li>What are my interests?</li> <li>Jib applications</li> <li>Challenges and rewards of work</li> <li>Creating the life you want</li> <li>What does success mean to me?</li> <li>Careers and the climate</li> </ul>	<ul style="list-style-type: none"> <li>How a range of application software is used to carry out designated tasks</li> <li>Copyright and Advertising</li> <li>Investigating graphics</li> <li>Bitmap</li> <li>Vector</li> <li>Design process</li> <li>Adapting an image: Creating and Editing Graphics</li> </ul>	<ul style="list-style-type: none"> <li>Computational thinking</li> <li>Constructing solutions (algorithms, using flow charts and pseudocode)</li> <li>Using logical reasoning to predict outputs</li> <li>Iteration and Selection</li> <li>Loops and selection</li> <li>Functions</li> <li>Parameters</li> <li>Lists</li> </ul>	<ul style="list-style-type: none"> <li>Introduction to text-based games</li> <li>Using loops</li> <li>Using iteration</li> <li>Write simple programs</li> <li>Syntax errors and debugging</li> <li>Using simple arithmetic statements</li> <li>Using logical expressions</li> </ul>
Online Resources	<ul style="list-style-type: none"> <li>Microsoft Teams</li> <li>Teach-ICT</li> <li>SAM Learning</li> <li>Unifrog</li> </ul>		<ul style="list-style-type: none"> <li>Seneca</li> <li>BBC Bitesize</li> <li>idea.org.uk</li> </ul>		<ul style="list-style-type: none"> <li>Code.org</li> <li>Cypher Discovery</li> <li>Turtle.ox.ac.uk</li> </ul>	



## Year 9 ICT Curriculum

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	<b>Boolean Logic &amp; E Safety</b>	<b>Mail Merge</b>	<b>Unifrog</b>	<b>Spreadsheets</b>	<b>Programming Algorithms</b>	<b>Further Programming techniques in Python</b>
Knowledge Covered	<ul style="list-style-type: none"> <li>Understanding digital footprint</li> <li>Boolean Logic</li> <li>Logic Puzzles</li> <li>E-safety</li> <li>Keeping safe on social media</li> <li>Data protection Act</li> <li>GDPR</li> <li>Computer Misuse Act</li> </ul>	<ul style="list-style-type: none"> <li>Writing professional letters</li> <li>Understanding mail merge</li> <li>Using spreadsheets and mail merge to 'autograph hunt'</li> </ul>	<ul style="list-style-type: none"> <li>What are my skills</li> <li>What comes after school</li> <li>Decimal Making</li> <li>Taking control of your career journey</li> <li>Working and earning- managing your money</li> <li>What is the labour market and why is it important</li> </ul>	<ul style="list-style-type: none"> <li>Adapting and using formatting tools</li> <li>Creating and adapting spreadsheet</li> <li>Understanding formulas</li> <li>Adapting and using given formula</li> <li>Creating a practical and useful spreadsheet given a brief</li> </ul>	<ul style="list-style-type: none"> <li>Testing &amp; Success Criteria</li> <li>Programming Techniques</li> <li>Program Development</li> <li>Networks</li> <li>Network topology</li> <li>Encryption</li> <li>Caesar Cipher</li> <li>Hashing</li> <li>Decoding Ciphers</li> <li>Encryption Ethics</li> <li>Public Key Cryptography</li> </ul>	<ul style="list-style-type: none"> <li>Effective coding: Developing meaningful solutions to problems</li> <li>Program Development</li> <li>Reconnecting with Python – writing simple programs to display messages</li> <li>Creating lists in Python</li> <li>Common Operations</li> <li>Using iteration</li> <li>Strings</li> <li>Testing solutions</li> <li>Evaluating future solutions</li> </ul>
Online Resources	<ul style="list-style-type: none"> <li>Microsoft Teams</li> <li>Teach-ICT</li> <li>SAM Learning</li> <li>Unifrog</li> </ul>		<ul style="list-style-type: none"> <li>Seneca</li> <li>BBC Bitesize</li> <li>Web.mit.edu</li> </ul>		<ul style="list-style-type: none"> <li>Code.org</li> <li>Cypher Discovery</li> <li>Bournetocode.com</li> </ul>	