

**Year 7 Autumn Term 1**

What are we learning?	What knowledge, understanding and skills will we gain?	What does mastery look like?	What additional resources are available?
Using Computers Safely	<p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>• Rules, Health &amp; Safety.</li> <li>• Organising and securing work.</li> <li>• Email Etiquette.</li> <li>• Online Dangers.</li> <li>• Cyberbullying.</li> </ul> <p><b>Understanding</b></p> <ul style="list-style-type: none"> <li>• Online Dangers: Identification, Avoiding and Reporting.</li> <li>• Compliance with Acceptable Use Policy</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>• Effectively use a search engine.</li> <li>• Create a publication (leaflet)</li> <li>• Identification of Online dangers</li> <li>• Email composition</li> <li>• File handling</li> </ul>	<ul style="list-style-type: none"> <li>• Can advise other students on how to stay safe online avoiding a number of threats.</li> <li>• Creation an Acceptable Use Policy focusing on Social Media and Email</li> <li>• Completion of <i>Next Steps</i> extension tasks from classroom board.</li> </ul>	<p>Assessment and homework sheets with objectives and outcomes</p> <p>All lesson materials available in student shared area and via Student Portal (Home Page Ramsey Academy website)</p> <p>Useful Web recourses:            Child Exploitation and Online Protection: <a href="http://www.ceop.police.uk">www.ceop.police.uk</a>            Internet Safety Advice: <a href="https://www.ramseyacademy.com/guide-to-internet-safety">https://www.ramseyacademy.com/guide-to-internet-safety</a>            E-Safely &amp; Acceptable use policies: <a href="https://www.ramseyacademy.com/e-safety-policy">https://www.ramseyacademy.com/e-safety-policy</a>            The Breck Foundation: <a href="http://www.breckfoundation.org/">http://www.breckfoundation.org/</a>            Think You Know: <a href="https://www.thinkuknow.co.uk/">https://www.thinkuknow.co.uk/</a></p>

Year 7 Autumn Term 2			
What are we learning?	What knowledge, understanding and skills will we gain?	What does mastery look like?	What additional resources are available?
Understanding Computers	<p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>Describe the main components of a computer system.</li> <li>Describe how binary switch values increase in size.</li> <li>Types of software: System, Application and Utility.</li> </ul> <p><b>Understanding</b></p> <ul style="list-style-type: none"> <li>Identify Software, hardware, input, output and storage devices.</li> <li>Identify the purpose and features of different utility software.</li> <li>Units of data storage (Byte, KB, MB, GB, TB)</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>Convert numbers between different bases (binary, denary, hexadecimal)</li> <li>Convert binary numbers to text</li> </ul>	<ul style="list-style-type: none"> <li>Identify the input, output and storage in real world devices</li> <li>Convert binary numbers into Hexadecimal values.</li> <li>Identify the impact of different utility software</li> <li>Analyse the strength and weaknesses of storage devices.</li> <li>Completion of <i>Next Steps</i> extension tasks from classroom board.</li> </ul>	<p>Assessment and homework sheets with objectives and keyword definitions.</p> <p>All lesson materials available in student shared area and via Student Portal (Home Page Ramsey Academy website).</p> <p>Useful Web recourses: Quizzes: <a href="http://www.teach-ict.com/gcse_new/computer%20systems/storage_devices/quizzes_storage_devices.html">http://www.teach-ict.com/gcse_new/computer%20systems/storage_devices/quizzes_storage_devices.html</a> Binary Explained: <a href="https://www.youtube.com/watch?v=kcTwu6TFZ08&amp;safe=active">https://www.youtube.com/watch?v=kcTwu6TFZ08&amp;safe=active</a> Binary Conversion Game: <a href="https://games.penjee.com/binary-numbers-game/">https://games.penjee.com/binary-numbers-game/</a></p>