

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>Knowledge</p> <ul style="list-style-type: none"> • Rules, Health & Safety. • Organising and securing work. • Email Etiquette. • Online Dangers. • Cyberbullying. <p>Understanding</p> <ul style="list-style-type: none"> • Online Dangers: Identification, Avoiding and Reporting. • Compliance with Acceptable Use Policy <p>Skills</p> <ul style="list-style-type: none"> • Effectively use a search engine. • Create a publication (leaflet) • Identification of Online dangers • Email composition • File handling 	<ul style="list-style-type: none"> • Can advise other students on how to stay safe online avoiding a number of threats. • Creation an Acceptable Use Policy focusing on Social Media and Email • Completion of <i>Next Steps</i> extension tasks from classroom board. 	<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: www.ceop.police.uk Internet Safety Advice: https://www.ramseyacademy.com/guide-to-internet-safety E-Safely & Acceptable use policies: https://www.ramseyacademy.com/e-safety-policy The Breck Foundation: http://www.breckfoundation.org/ Think You Know: https://www.thinkuknow.co.uk/</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?
<p>Understanding Computers</p>	<p>Knowledge</p> <ul style="list-style-type: none"> Describe the main components of a computer system. Describe how binary switch values increase in size. Types of software: System, Application and Utility. <p>Understanding</p> <ul style="list-style-type: none"> Identify Software, hardware, input, output and storage devices. Identify the purpose and features of different utility software. Units of data storage (Byte, KB, MB, GB, TB) <p>Skills</p> <ul style="list-style-type: none"> Convert numbers between different bases (binary, denary, hexadecimal) Convert binary numbers to text 	<ul style="list-style-type: none"> Identify the input, output and storage in real world devices Convert binary numbers into Hexadecimal values. Identify the impact of different utility software Analyse the strength and weaknesses of storage devices. Completion of <i>Next Steps</i> extension tasks from classroom board. 	<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: http://www.teach-ict.com/gcse_new/computer%20systems/storage_devices/quizzes_storage_devices.html Binary Explained: https://www.youtube.com/watch?v=kcTwu6TFZ08&safe=active Binary Conversion Game: https://games.penjee.com/binary-numbers-game/</p>