


















COMPUTING – Y7 Knowledge Map Spring Term 2

WEEK 1	WEEK 2	WEEK 3																														
<p>Get creative and doodle your way to making a masterpiece! Design your own by drawing the apps, websites, games, or even emoji you like the most</p>  <p>Make sure you have a #SaferInternetDay2019 message in the middle. You could even colour code the doodles based on how those online experiences make you feel, e.g. blue = calm, yellow = happy, purple = angry, green = entertained</p>	<p>SAFEGUARDING Social Media channels are helping to make the world a more networked, connected place. With that comes responsibility, to ourselves and to each other.</p>  <p>Log-in to www.idea.org.uk and try to complete the Social Media Ethics badge (you will have created your log-in during lessons this week)</p>  <p>or Find out about the S.M.A.R.T rules at www.kidsmart.org.uk/beingsmart/</p> <p>Design a bookmark to help Year 6 students stay safe when using the Internet</p>	<p>KEY TERMS</p> <p>Operating system: Software that manages computer hardware and software</p> <p>User Interface: The method by which the user and the computer exchange information and instructions</p> <p>Application software: Designed to perform a group of coordinated functions, tasks, or activities for the benefit of the user</p> <p>System software: Helps run/maintain the computer, e.g. the operating system, drivers and utility software</p> <p>Challenge Task:</p> <ul style="list-style-type: none"> • What is a GUI? • What does the acronym W.I.M.P stand for? • What type of interface do you use on your mobile phone? 																														
WEEK 4	WEEK 5	WEEK 6																														
<p>KEY TERMS</p> <p>LAN: Local Area Network - computers or devices are connected together over a small geographical area</p> <p>WAN: Wide Area Network - computers or devices are connected together over a large geographical area</p> <p>Network: A group of interconnected computers/devices</p> <p>Terminator: A device that terminates signals to prevent them reflecting back down the line</p> <table border="1" data-bbox="91 1206 468 1422"> <tr> <td>Ring Topology</td> <td></td> </tr> <tr> <td>Bus Topology</td> <td></td> </tr> <tr> <td>Star Topology</td> <td></td> </tr> </table> <p>Research Challenge: Can you find examples of other types of networks?</p>	Ring Topology		Bus Topology		Star Topology		<p>Smart Device: An electronic hardware device that is able to connect, share and interact with its user and other smart devices.</p> <p>What can you control with a Smart device?</p> <table border="1" data-bbox="808 1023 1485 1098"> <tr> <td>• Thermostats</td> <td>• Lights</td> <td>• Cameras</td> </tr> <tr> <td>• Locks</td> <td>• Plugs</td> <td>• Smoke and CO Alarms</td> </tr> </table> <p>What Is a Smart Hub? A smart hub is the central device that allows all the different products to work together in a smart home</p>  <p>Challenge: What are the benefits of a Smart Home? Are there any security issues associated with Smart Home devices?</p>	• Thermostats	• Lights	• Cameras	• Locks	• Plugs	• Smoke and CO Alarms	<p>Create a table (in your OneNote exercise book) and match the devices to show whether they are Input, Output or Storage devices:</p>  <table border="1" data-bbox="1520 986 2188 1283"> <thead> <tr> <th>INPUT</th> <th>STORAGE</th> <th>OUTPUT</th> </tr> </thead> <tbody> <tr> <td>Mouse</td> <td>Projector</td> <td>Speakers</td> </tr> <tr> <td>Graphic Tablet</td> <td>Keyboard</td> <td>SSD</td> </tr> <tr> <td>Hard Drive</td> <td>Printer</td> <td>Microphone</td> </tr> <tr> <td>Memory Stick</td> <td>Scanner</td> <td>Headphones</td> </tr> <tr> <td>Plotter</td> <td>MIDI keyboard</td> <td>Fingerprint Scanner</td> </tr> </tbody> </table> <p>Challenge: What devices could be classed as both an Input <i>and</i> Output device? What would you class your mobile phone as? Explain your answer</p> 	INPUT	STORAGE	OUTPUT	Mouse	Projector	Speakers	Graphic Tablet	Keyboard	SSD	Hard Drive	Printer	Microphone	Memory Stick	Scanner	Headphones	Plotter	MIDI keyboard	Fingerprint Scanner
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