

Computing Curriculum Map - Year 9

		Autumn 1 Online Safety	Autumn 2 Data Representation	Spring 1 Word Processing	Spring 2 Web Design	Summer 1 Email	Summer 2 Careers In Computing
Learning outcomes/ composite knowledge		Know the dangers of the online world, how they can affect a person or device and know how to get help.	Know how computers use Binary and carry out simple operations on Binary numbers.	Know how to use and apply Word processing software tools to format and present documents effectively to meet requirements.	Know how to plan, create and publish a multi-page website.	Be able to use email software to send messages and manage incoming email efficiently.	Know how to explore careers in the Computing sector.
Knowledge Components	Declarative – knowing what	<p>I know strategies to help me develop a healthy and positive body image.</p> <p>I know the dangers and consequences of making or sharing sexually explicit images</p> <p>I know how I can create a positive online reputation</p> <p>I know the impact of cyberbullying</p> <p>I know how to report extreme views and fake news online</p> <p>I know the impact of social media on mental health & emotional wellbeing</p> <p>I can explain why it's important to know how to recover a</p>	<p>I know how computers use binary and know the data sizes</p> <p>I know how Binary can be converted to Denary</p> <p>I know how Denary can be converted to Binary</p> <p>I know how coding schemes can be used to encode messages</p> <p>I know how to use the ASCII table.</p>	<p>I know how to select and use appropriate templates for different uses</p> <p>I know how to combine and merge information from other data sources</p> <p>I know how to select and use a range of document editing tools to improve document content</p> <p>I know how to insert information into a document from a range of sources</p> <p>I know how to improve a documents structure and style</p> <p>I know how to create and modify tables and forms to gather information</p>	<p>I know documentation needs to be created when planning a website</p> <p>I know that a folder structure needs to be created to store asset files</p> <p>I know assets need to be sourced</p> <p>I know a website structure needs to be created before creating the pages</p> <p>I know content will need adding to the webs pages to populate the pages</p> <p>I know how to test the website using a test plan.</p> <p>I know how to correct faults, improve the website and publish</p>	<p>I know email messages can be composed and formatted using software</p> <p>I know how to reduce the file size of an email attachment</p> <p>I know that email messages can be sent to individuals and groups</p> <p>I know how to stay safe and respect others when using email</p> <p>I know how to use an address book to organise contact information</p>	<p>I know how to research the job responsibilities, entry requirements and starting salary of a games developer</p> <p>I know how to research the job responsibilities, entry requirements and starting salary of a Cybercrime investigator</p> <p>I know how to research the job responsibilities, entry requirements and starting salary of a Robotics engineer</p> <p>I know how to research the job responsibilities, entry requirements and starting salary of a Website developer</p> <p>I know how to research my ideal job</p>

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	device or account if it gets compromised.			the website.		in Computing and know how to find information on entry requirements
Procedural – knowing how and when	<p>I can develop strategies to help me create a healthy and positive body image.</p> <p>I can seek help if a sexually explicit image is spread of me or if I receive a sexually explicit image.</p> <p>I can create a positive online reputation.</p> <p>I Know how to get support for Cyberbullying.</p> <p>I can report extreme views and fake news online</p> <p>I can get support if social media affects my mental health and emotional wellbeing</p> <p>I can get help with recovering a device or account if it gets compromised.</p>	<p>I can sort data sizes from smallest to largest</p> <p>I can convert Binary to Denary</p> <p>I can convert Denary to Binary</p> <p>I can encode messages using coding schemes to encode messages</p> <p>I can convert ASCII to Binary</p>	<p>I can select and use appropriate templates for different uses</p> <p>I can combine and merge information from other data sources</p> <p>I can select and use a range of document editing tools to improve document content</p> <p>I can insert information into a document from a range of sources</p> <p>I can improve a documents structure and style</p> <p>I can create and modify tables and forms to gather information</p>	<p>I can create planning documentation for a website</p> <p>I can create folder structures to store asset files</p> <p>I can source assets for a website</p> <p>I can structure for my website</p> <p>I can add content to my website</p> <p>I can test the website using a test plan</p> <p>I can correct faults, improve the website and publish the website.</p>	<p>I can compose and format email messages</p> <p>I can reduce the file size of an email attachment</p> <p>I can send email messages to individuals and groups</p> <p>I can stay safe and respect others when using email</p> <p>I can create an address book to organise contact information</p>	<p>I can research the job responsibilities, entry requirements and starting salary of a games developer</p> <p>I can research the job responsibilities, entry requirements and starting salary of a Cybercrime investigator</p> <p>I can research the job responsibilities, entry requirements and starting salary of a Robotics engineer</p> <p>I can research the job responsibilities, entry requirements and starting salary of a Website developer</p> <p>I can research my ideal job in Computing and know how to find information on entry requirements</p>
National Curriculum reference	Understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise	Understand how numbers can be represented in binary, and be able to carry out simple operations on binary numbers (for example, binary addition, and	Undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices,	Undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices,	Undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of	Use two or more programming languages, at least one of which is textual, to solve a variety of computational problems; make

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	inappropriate content, contact and conduct and know how to report concerns.	conversion between binary and decimal	to achieve challenging goals, including collecting and analysing data and meeting the needs of known users	to achieve challenging goals, including collecting and analysing data and meeting the needs of known users	devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users	appropriate use of data structures (for example, lists, tables or arrays); design and develop modular programs that use procedures or functions.
Common misconceptions	<p>Pupils confidence in staying safe online.</p> <p>Sending sexually explicit images is not breaking the law</p> <p>Poor online behaviour does not break the law</p>	<p>Pupils often have trouble grasping that 0 is a digit or number and in denary there are 10 digits, 0 to 9, and in hexadecimal there are 16 digits, 0 to 15</p>	<p>Users cannot be creative using a Word processor</p> <p>A word processing skills are not required in the modern world</p>	<p>Websites are designed quicker without the planning process</p> <p>Websites do not need detail</p> <p>Successful websites are easy to build</p>	<p>Pupils confidence in using email tools</p> <p>Emails skills are not needed for the job I want</p>	<p>A Career in computing is only for males</p> <p>Being in the computer-related field means sitting alone at a computer all day</p> <p>You have to be an expert to be successful in the Computing field</p>
Exemplar composite Task(s)	<p>What does body image mean to you? Scenario based body image examples and questions</p> <p>Introduction to deep fake technology</p> <p>What types of pressures do people feel when they are using social media?</p> <p>How can images and videos be digitally manipulated?</p> <p>What is deep fake technology and why is it wrong to use?</p> <p>How can we get</p>	<p>Introduction to Binary – video</p> <p>What is Binary?</p> <p>Binary in computers</p> <p>What are Bits and bytes</p> <p>Bits and bytes task</p> <p>Data size task</p>	<p>What is a word processor?</p> <p>How are they used in the world of work?</p> <p>Advantages of using templates in a word processor</p> <p>How do we pick templates?</p> <p>Template task</p>	<p>Benefits of creating a website</p> <p>Advantages of planning a website</p> <p>Client requirements discussion</p> <p>Introduction to sitemap documentation</p> <p>Create a sitemap for a client - task</p>	<p>Benefits of using email as a communication tool</p> <p>Scenario based task</p> <p>Teacher led demonstration – composing an email</p> <p>Composing an email – task</p> <p>Explain how you have composed the email using email tools - task</p>	<p>Name a career in computing</p> <p>Career in games developing – video</p> <p>Teacher led discussion – Games developer responsibilities</p> <p>Games developer – task</p> <p>Games developer job advertisement - task</p>

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	help?					