



Whole school overview for computing 2020-2021

Computing	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Rowan	Knows how to operate simple equipment, e.g. turns on CD player and uses remote control.	Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones.	Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images.	Knows that information can be retrieved from computers Completes a simple program on a computer.	Uses ICT hardware to interact with age-appropriate computer software.	Early Learning Goal Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.
Willow	Online safety Create, manage and manipulate digital content (text and images and word processing skills) writing names, changing colour and size. Use 2Paint to draw. Save work.	Online safety Digital research (searching skills using search engines) Research pictures and facts.	Online safety Programming/simulation and modelling Bee Bots and write instructions. Writing algorithms.	Online safety Text and images Take photos of themselves and scan photos from home to make a family album.	Online safety Digital research (using search engines to find and add images to text) Searching skills using photos to make a very simple leaflet about an animal.	Online safety Computer Science. Using Purple Mash 2Code to explore algorithms and creating code to make something happen.
Hazel	Online safety Create, manage and manipulate digital content Develop word processing skills such as save and type.	Online safety Programming/simulation and modelling Writing own algorithms to demonstrate they are a set of instructions.	Online safety Computer Science Coding and programming using Purple Mash 2Code exploring algorithms and debugging.	Online safety Text and images Word processing- expand on skills Photography- taking photos, beginning to upload and save them to the computer.	Online safety Data handling Use IT to sort and store information and create graphs and display charts using Purple Mash.	Online safety Digital research Using the internet to search Electronic communication Exploring ways we can use technology to communicate for example, email.



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Beech	<p>Online safety</p> <p>Sound and multimedia. Using Purple Mash to create, save and edit sounds and beats on the computer. Understand computers can record and store sound.</p>	<p>Online safety</p> <p>Electronic communication Understanding and exploring sending emails.</p>	<p>Online safety</p> <p>Computational thinking/ programming Writing own algorithms. Using Purple Mash 2Code to explore algorithms and creating code to make something happen.</p>	<p>Online safety</p> <p>Data handling Use IT to sort and store information and create graphs and display charts using Purple Mash.</p>	<p>Online Safety</p> <p>Animation Plan and create a short animation. Children learn that animation is a sequence of still images.</p>	<p>Online safety</p> <p>Programming Children to create their own program using previous learning and linking to other topics through Scratch Junior or 2Code.</p>
Pine	<p>Online safety</p> <p>IT/DL Digital Research Investigate effective strategies to research for information using search engines online and use the information found to create digital content.</p>	<p>Online safety</p> <p>Movies and multimedia Investigate and create stop motion animations.</p>	<p>Online Safety</p> <p>Hardware, programming and Computational Thinking Learn about different devices that are programmed to complete an action and how they help us. Investigate a range of inputs and outputs.</p>	<p>Online safety</p> <p>Programming (Scratch) Code It scheme to plan and write algorithms using sequence and repetition.</p>	<p>Online safety</p> <p>Communication, Collaboration and networking. Use a range of digital tools to communicate. In particular, blogging.</p>	<p>Online safety</p> <p>Presenting information Look at different ways to present work on the computers using different programs including creating PowerPoints.</p>
Elder	<p>Online safety</p> <p>Computer science – programming and hardware</p>	<p>Online safety</p> <p>Information technology – data handling Collect data and enter it into excel. Create</p>	<p>Online safety</p> <p>Information Technology – graphics and images / modelling and simulation.</p>	<p>Online safety</p> <p>Information Technology – sound / multimedia. Create a podcast.</p>	<p>Online safety</p> <p>Information Technology / Digital Literacy – digital research.</p>	<p>Online safety</p> <p>Computer Science – computational thinking</p>



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	Coding using code it, making a quiz on scratch.	diagrams and graphs from the data to answer questions.	PowerPoint – entering media such as pictures, sound and animation.		Develop refined searches for search engines. Create research questions and find the answers. Learn how search engines work and what a webpage is.	Code it Create a programme to sort animals.
Cherry	Online safety Data Handling Using data to create graphs and interpreting data.	Online safety Collaborating and networking Creating a webpage / app.	Online safety Modelling Using Excel, processing data and using formulaes.	Online safety Multimedia – Creating PowerPoints on Mexico using a combination of different content forms such as text, audio, images, animations, video and interactive content.	Online safety Programming (Scratch) Using Code It to explore and make different programs.	Online safety Programming (Scratch) Using Code It to explore and make different programs.
Oak	Online safety Research Finding information out about school and creating a PowerPoint to create a presentation.	Online safety Multimedia Using the i-pads to create Online safety videos including sound, images and video.	Online safety Computational Thinking (Scratch) Using Code It to create games and programs for a purpose.	Online safety Digital Research, communication and collaboration Understanding what a search engine is, how it works and creating own webpages which would rank high on a search.	Online safety Programming & computational thinking Building on previous learning designing, creating, building own project/program exploring robots, quizzes, etc. (LegoWeDo external provider and Scratch).	Online safety Programming & computational thinking Building on previous learning designing, creating, building own project/program exploring robots, quizzes, etc. (LegoWeDo external provider and Scratch).

****Online safety- An explicit lesson is taught every half-term due to the nature of the online world. Online safety themes will also run throughout topics.**