

Computing

Computing equips pupils to use computational thinking and creativity to understand and change the world. It helps to ensure children become digitally literate.

	<u>Reception</u>	<u>Years 1 and 2</u>	
EYFS (Reception)/National Curriculum Objectives (Years 1 and 2)	<ul style="list-style-type: none"> Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes. 	<ul style="list-style-type: none"> Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs. Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Recognise common uses of information technology beyond school. Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the Internet or other online technologies. 	
Cecil Gowing's curriculum coverage	<p style="text-align: center;"><u>Reception</u></p> <ul style="list-style-type: none"> Children know to notify an adult if they are unsure about any computer event. Follow Smartie the Penguin's rules for being safe on line. Children understand the importance of using technology safely. Children will have the opportunity to use different modes of technology which will be constantly available to the children. Turning an iPad off and on/sliding to open. Turn on and off and give simple commands to robots such as Beebots. Can operate an online robot to perform simple movements. 	<p style="text-align: center;"><u>Year 1</u></p> <ul style="list-style-type: none"> Know to tell a trusted adult if they see something inappropriate. Know that some information (full name, address, birthday, etc) is 'special' as it applies to them. Children know that personal information is as valuable online as offline and that it should not be shared without an adult's permission. Children discuss, understand and abide by the school's e-Safety rules. Children understand the importance of talking to a trusted adult about online experiences. Develop familiarity with the iPad Select appropriate images. Add text to photographs, graphics 	<p style="text-align: center;"><u>Year 2</u></p> <ul style="list-style-type: none"> Children explore a range of age appropriate digital resources. Children to know that not everything they find online is accurate. Children to know what to do if they find something inappropriate online. Children discuss, understand and abide by the school's e-Safety rules. Children are aware that not everyone they meet online is automatically trustworthy. Children understand that personal information is unique to them and should not be shared without parent or teacher's permission. Children identify characteristics of people are worthy of their trust and can identify the signs of dangers

	<ul style="list-style-type: none"> • Explore buttons when individual buttons are pressed on a robot. 	<p>and sound, e.g. captions and labelling.</p> <ul style="list-style-type: none"> • Begin to explain reasons why choices have been made • Understand what an algorithm is. • Follow algorithms to move around a course. • Create a series of algorithms to move their peers around a course. • Predict what will happen when navigating around a course. • Explore an onscreen robot, e.g. ALEX, navigate it around a course or grid. • Have experiences of controlling other devices such as video recording equipment and digital cameras. • Perform simple tasks and commands on Beebots. • Find and repair a simple algorithm. 	<p>online.</p> <ul style="list-style-type: none"> • Begin to word process short stories through digital books. • Develop basic editing skills including different presentational features. • Save, retrieve and amend their work. • Make use of graphics to enhance their text on screen. • Talk about their use of graphics and how it may alter the message begin given. • Use different layouts and templates for different purposes. • Use a search engine to research specific topics. • Talk about how everyday devices can be controlled. • Know that devices and actions on screen may be controlled by sequences of actions and instructions from a controller. • Create a sequence of instructions to control a programmable robot (such as a Beebot) to carry out a pre-determined route to include direction, distance and turn. • Use a program like ALEX to create a simple program of algorithms to perform actions. • Discuss how to improve/change their sequence of commands. • Find and repair (debug) the mistake in a sequence of algorithms.
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<p>Outdoor Learning Opportunities</p>	<p><i>Activities such as...</i></p> <p>Emergency services bike role play, climbing wall, habitats/maps, woodwork, treasure hunt, camp fire/cooking, gardening/maintenance, archery, woodland crowns, games in the woods, weather, art using natural materials, bug hunting and identification, mud kitchen potion making, bird feeders/watching, litter picking, pond dipping and den building.</p>
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