

Bullion Lane Primary School

Computing Curriculum – Cycle B

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	Cause and effect toys – Children learn to use toys to gain a response. E.g. toy mobile phones or car alarm keys.	Children begin to understand the different uses of IWBs - used for children and involving them in the activity.	Cooking provides a range of opportunities to use different technology. This may include using a food processor, microwave or hand mixer.	Music - children learn how to use ICT with music – e.g. to record their music and singing onto digital recorders.	Technology outdoors – Use Walkie-talkies in a fun way but with a real purpose. Children explore different ways to use them.	Remote-controlled toys - children further their understanding of directional language, forward, backwards, sideways, left and right.
Reception	<p>PSED - Managing feelings and behaviour</p> <ul style="list-style-type: none"> Children learn how to control their emotions if frustrated when the technology does not respond how they want it to Use cameras or iPads to capture feelings 	Children learn to use a computer and how to log onto their account.	<p>Physical Development - Moving and handling</p> <ul style="list-style-type: none"> Fine motor skills develop to use control pads and keyboards <p>Health and self-care</p> <ul style="list-style-type: none"> Children learn the balance between playing a computer toy and being sedentary, and spending time being physical outdoors 	<p>PSED - Self-confidence and self-awareness</p> <ul style="list-style-type: none"> Increased self-confidence as their ICT skills develop Use ICT resources that allow children to make choice 	<p>Communication and Language - Listening and attention</p> <ul style="list-style-type: none"> Listening to instructions on how the resource works <p>Understanding</p> <ul style="list-style-type: none"> Being able to follow the instructions <p>Speaking</p> <ul style="list-style-type: none"> Explaining to the practitioner the sequence the robot has performed 	<p>PSED – Making Relationships</p> <ul style="list-style-type: none"> Children working together to programme a robot Using simple ICT programmes or resources to communicate with each other, eg walkie-talkies
Year 1/2	<p>Computer Science</p> <p>How can I make a robot move?</p>	<p>Computer Science</p> <p>How can I debug an algorithm?</p>	<p>Digital Literacy</p> <p>How can I use a computer safely?</p>	<p>Digital Literacy</p> <p>How can I keep myself safe online?</p>	<p>IT</p> <p>How can I create art using a computer?</p>	<p>IT</p> <p>How can I create and edit digital media?</p>
Year 3/4	<p>Computer Science</p> <p>How are computers connected?</p>	<p>Computer Science</p> <p>How does the internet work?</p>	<p>Digital Literacy</p> <p>What is cyber-bullying?</p>	<p>Digital Literacy</p> <p>How can I use a search engine effectively?</p>	<p>IT</p> <p>How can I format a piece of text?</p>	<p>IT</p> <p>What is animation?</p>
Year 4/5	<p>Computer Science</p> <p>How can I use loops when writing code?</p>	<p>Computer Science</p> <p>What is the difference between controlled and infinite loops?</p>	<p>Digital Literacy</p> <p>How can I trust what I find online is correct?</p>	<p>Digital Literacy</p> <p>How can I edit photos?</p>	<p>IT</p> <p>What is data logging?</p>	<p>IT</p> <p>How can we use a database?</p>
Year 5/6	<p>Computer Science</p> <p>How do we communicate over the internet?</p>	<p>Computer Science</p> <p>What are data packets and how can I use them?</p>	<p>Digital Literacy</p> <p>How can I check the security of a website?</p>	<p>Digital Literacy</p> <p>How can I create my own webpage?</p>	<p>IT</p> <p>What is a spreadsheet?</p>	<p>IT</p> <p>How can I form data in a spreadsheet?</p>