

Sticky Knowledge Assessment - What do we want our children to know?

Subject: Computing

Key: In blue are the Sticky Knowledge questions for the previous year – recap these at the start of each lesson

Term	End of Year Expectations		
	Reception	Year 1	Year 2
1		<p>What technology do you use at home?</p> <p>Do you use: computers, laptops, iPads, a TV, streaming services, music, YouTube independently at home? How?</p> <p>Being safe on the internet</p> <p>Safer Internet Day</p>	<p>Programming A – Moving A Robot</p> <p>What is an algorithm?</p> <p>How do we debug this program?</p> <p>What commands are needed?</p> <p><i>Show the children a program which needs debugging.</i></p>
		<p>Technology Around Us</p> <p>Why do we use a _____?</p> <p><i>Discuss technology for different purposes.</i></p> <p>How can you create a document?</p> <p>How do you save a document?</p> <p>How do you open a document?</p> <p>How do you edit a document?</p>	<p>Programming A - Robot Algorithms</p> <p>What do we call a sequence of instructions in computing?</p> <p>What is a command?</p> <p>How do I start and run a program?</p> <p>What is debugging?</p>

<p>2</p>	<p>How can data help us? - <i>weave this language into daily data collecting tasks</i> e.g.</p> <p>How many packed lunches are there today?</p> <p>How many pupils are there? Boys/girls?</p> <p>How many children are absent?</p>	<p>How can tools help us?</p> <p>Making the connection between physical and virtual tools</p> <p><u>Physical tools</u> Woodwork - saws, screwdrivers, hammers Food - peelers, knives, graters, Fine motor - playdough tools, pipettes, tweezers</p> <p><u>Virtual tools</u> Interactive whiteboard iPad apps – Paint, Kaleidoscope</p>	<p>Technology Around Us</p> <p>Why do we use a _____?</p> <p><i>Discuss technology for different purposes.</i></p> <p>How can you create a document?</p> <p>How do you save a document?</p> <p>How do you open a document?</p> <p>How do you edit a document?</p>
		<p>Creating Media – Digital Painting</p> <p>What do the different tools on a painting program do? <i>paintbrush, pencil, fill tool, eraser, undo, shape tool, and brush styles</i></p> <p>Which tool will be most helpful?</p>	<p>Computing Systems and Networks - Information Technology Around Us</p> <p>What are the different uses of information technology?</p> <p>What are the rules for safely using information technology?</p> <p>Why do we need to use information technology in different ways?</p>
<p>3</p>	<p>What technology do you use at home?</p> <p>Do you use: computers, laptops, iPads, a TV, streaming services, music, YouTube independently at home? How?</p>	<p>How can technology help us?</p> <p>Taking a photograph with a camera or tablet</p>	<p>Creating Media – Digital Writing.</p> <p>What is the difference between typing and writing?</p>

	<p>Being safe on the internet</p> <p>Safer Internet Day</p>	<p>Searching for information on the internet</p> <p>Playing games on the interactive whiteboard</p> <p>Exploring an old keyboard or other mechanical toys</p> <p>Watching a video clip</p> <p>Listening to music</p>	<p>Which method do you prefer and why?</p>
		<p>Data and Information - Grouping Data</p> <p>How would you group these objects?</p> <p>How can we use different labels to present this data?</p>	<p>Creating Media – Digital Music</p> <p>How can I use a computer to make music?</p> <p>Is it easier to make music on a computer than with instruments? Why?</p> <p>How can I review and improve my musical composition using a computer?</p>
<p>4</p>	<p>How can tools help us?</p> <p>Making the connection between physical and virtual tools</p> <p><u>Physical tools</u></p> <p>Woodwork - saws, screwdrivers, hammers</p> <p>Food - peelers, knives, graters,</p> <p>Fine motor - playdough tools, pipettes, tweezers</p>	<p>How do instructions / commands help us?</p> <p>Positional language</p> <p>Instructions or games and activities</p> <p>Using a device</p> <p>PE</p>	<p>Programming B - Animations</p> <p>What is an algorithm?</p> <p>What are the different programming blocks you can use?</p> <p>What would an effective program look like?</p>

	<p><u>Virtual tools</u> Interactive whiteboard iPad apps – Paint, Kaleidoscope</p>	<p>Programming A – Moving A Robot</p> <p>What is an algorithm?</p> <p>How do we debug this program?</p> <p>What commands are needed?</p> <p><i>Show the children a program which needs debugging.</i></p>	<p>Programming B – Programming Quizzes</p> <p>What is an algorithm?</p> <p>How do I create a successful sequence of commands?</p> <p>How can I change a sequence of commands?</p> <p>How do I debug my programme so it runs correctly?</p>
5	<p>How can technology help us?</p> <p>Taking a photograph with a camera or tablet</p> <p>Searching for information on the internet</p> <p>Playing games on the interactive whiteboard</p> <p>Exploring an old keyboard or other mechanical toys</p> <p>Watching a video clip</p> <p>Listening to music</p>	<p>Programming A – Moving A Robot</p> <p>What is an algorithm?</p> <p>How do we debug this program?</p> <p>What commands are needed?</p> <p><i>Show the children a program which needs debugging.</i></p>	<p>Creating Media – Digital painting</p> <p>What do the different tools on a painting program do? <i>paintbrush, pencil, fill tool, eraser, undo, shape tool, and brush styles</i></p> <p>Which tool will be most helpful?</p>
		<p>Programming B - Animations</p> <p>What is an algorithm?</p> <p>What are the different programming blocks you can use?</p> <p>What would an effective program look like?</p>	<p>Creating Media – Digital Photography</p> <p>Which photographs would you take in landscape and which in portrait?</p> <p>How can you improve and/or change a photograph using a device?</p> <p>How can I tell if a photograph has been changed?</p>

6	<p>How do instructions / commands help us?</p> <p>Positional language</p> <p>Instructions or games and activities</p> <p>Using a device</p> <p>PE</p>	<p>How can tools help us?</p> <p>Making the connection between physical and virtual tools</p> <p><u>Physical tools</u> Woodwork - saws, screwdrivers, hammers Food - peelers, knives, graters, Fine motor - playdough tools, pipettes, tweezers</p> <p><u>Virtual tools</u> Interactive whiteboard iPad apps – Paint, Kaleidoscope</p>	<p>Data and Information - Grouping Data</p> <p>How would you group these objects?</p> <p>How can we use different labels to present this data?</p>
		<p>Creating Media – Digital Writing.</p> <p>What is the difference between typing and writing?</p> <p>Which method do you prefer and why?</p>	<p>Data and Information – Pictograms</p> <p>What is an attribute?</p> <p>When should you share or not share data?</p> <p>What information can we learn from this tally chart or pictogram?</p>