

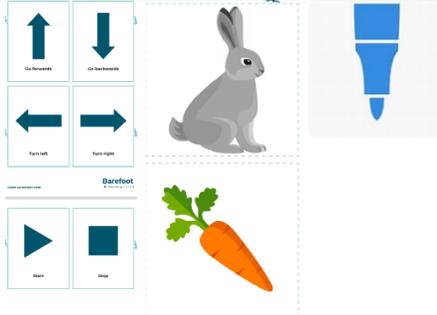
Autumn 1 E-safety, programming & digital art

Knowledge I know...	Skills I can...	Links back to I remember...
<ul style="list-style-type: none"> The internet helps us to find out new things We use Kiddle on the internet We use the internet with a grown up Ipads can help us with our learning I need to take a good quality photo or video 	<ul style="list-style-type: none"> Name different technology Name different parts on an ipad Follow the rules we have in school/at home for using the internet/iPads Use Kiddle to search on the internet safely (with the help of on adult) Get help from an adult if something on the internet worries me Use the iPad to take a photo Edit my photo Use the ipad to take a video 	<ul style="list-style-type: none"> n/a

<p>Vocabulary:</p> <p>App: A computer programme on a phone, tablet or watch</p> <p>Digital art: Art that is made using technology</p> <p>Internet: a global computer network that gives information and communication</p> <p>Kiddle: An online search engine for children</p> <p>Online: your computer is connected to the internet</p> <p>[N.B. Children to be exposed to vocabulary but no expectation to use as per skills progression]</p>	<p>Images:</p> 
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Spring 1 Presentation, programming, e-safety

Knowledge I know...	Skills I can...	Links back to I remember...
<ul style="list-style-type: none"> A range of technology is used in my home and at school You have to be safe when using a computer, the internet or ipads and have to follow the rules for using these That you can press buttons to make something work and it will do the same thing every time because it understands a very special computer language 	<ul style="list-style-type: none"> Explore a range of technology used by my family/in my community Use a simple app (e.g. SketchesSchool) to present my ideas in digital drawing. Get help from an adult if something on the internet worries me Give clear instructions to make a rabbit run around a grid to collect a carrot (computational thinking) 	<ul style="list-style-type: none"> How to stay safe online (autumn). Using an iPad to take a photo (autumn)

<p>Vocabulary:</p> <p>Algorithm: a precise set of ordered steps that can be followed by a human or a computer to achieve a task.</p> <p>App: A computer programme on a phone, tablet or watch</p> <p>Command: a single instruction that can be used in a program to control a computer.</p> <p>Digital art: Art that is made using technology</p> <p>Internet: a global computer network that gives information and communication</p> <p>Program: a set of ordered commands that can be run by a computer to complete a task.</p> <p>Photograph: is a picture made using a camera, printed or stored digitally.</p> <p>[N.B. Children to be exposed to vocabulary but no expectation to use as per skills progression]</p>	<p>Images:</p> 
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Summer 1 Programming, e-safety (Beebots)

Knowledge <i>I know...</i>	Skills <i>I can...</i>	Links back to <i>I remember...</i>
<ul style="list-style-type: none"> • What given commands will do • Some words that can be enacted • How to run my program • There may be more than one solution to a problem • How to debug my program • A program is a set of commands that a computer can run. 	<ul style="list-style-type: none"> • Predict the outcome of a command or sequence (using up to 4 commands including forwards, backwards, left and right) • Follow an instruction • Give clear instructions • Combine 4 directional commands (eg. forwards, backwards, left right) to make a sequence • Plan a simple program • Debug my program • Create more than one program to achieve a task 	<ul style="list-style-type: none"> • Giving clear instructions to make a rabbit run around a grid to collect a carrot (Spring)

Vocabulary:	Images:												
<p>Algorithm: a precise set of ordered steps that can be followed by a human or a computer to achieve a task.</p> <p>Code: The commands a computer can run.</p> <p>Command: a single instruction that can be used in a program to control a computer.</p> <p>Debugging: finding and fixing a problem with a program.</p> <p>Predict: to have a logical guess.</p> <p>Program: a set of ordered commands that can be run by a computer to complete a task.</p> <p>Run: to action the commands in a program.</p> <p>Sequence: the order in which commands are performed to achieve a task.</p> <p>[N.B. Children to be exposed to vocabulary but no expectation to use as per skills progression]</p>	 <p>The diagram illustrates Beebot programming concepts. On the left, a 3x2 grid shows a Beebot starting at the top-left, moving up to a star, then right to a sun, then down to a Beebot, and finally right to a lightning bolt. Below this is a sequence of icons: a blue 'X' in a circle, two orange arrows pointing up, and a green 'GO' button. Text below reads: 'This algorithm will move the Beebot 2 squares forward.' On the right, a table lists icons and their functions:</p> <table border="1"> <thead> <tr> <th>Icon</th> <th>What does it do?</th> </tr> </thead> <tbody> <tr> <td>Two orange arrows pointing up and down</td> <td>Forwards and backwards moves</td> </tr> <tr> <td>Two orange arrows pointing left and right</td> <td>Left and right turns</td> </tr> <tr> <td>Blue circle with a white 'X'</td> <td>Clears the robot's memory so it forgets old instructions</td> </tr> <tr> <td>Green circle with 'GO'</td> <td>Makes the robot start the program</td> </tr> <tr> <td>Blue circle with two vertical bars</td> <td>This will make the robot pause</td> </tr> </tbody> </table>	Icon	What does it do?	Two orange arrows pointing up and down	Forwards and backwards moves	Two orange arrows pointing left and right	Left and right turns	Blue circle with a white 'X'	Clears the robot's memory so it forgets old instructions	Green circle with 'GO'	Makes the robot start the program	Blue circle with two vertical bars	This will make the robot pause
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Progress is **knowing more** (knowledge), **remembering more** (links back to), **being able to do more** (skills)