















<p>2-year cycle Year A</p>	<p>Technology Around us</p> 	<p>Creating Media</p> 	<p>Programming</p> 	<p>Data and Information</p> 	<p>Creating media/Effective use of tools</p> 	<p>Programming</p> 
<p>Y1/2</p> 	<p>Technology around us</p> <p>I can locate examples of technology in the classroom</p> <p>I can explain technology as something that helps us</p> <p>I can identify rules to keep us safe and healthy when we are using technology in and beyond the home</p> <p>I can identify that a computer is a part of information technology</p> <p>I can open a file</p> <p>I can move and resize images</p> <p>I can explain how information technology helps people</p> <p>I can recognise that information technology can be connected</p>	<p>Digital Painting</p> <p>I can draw lines on a screen and explain which tools I used</p> <p>I can choose appropriate paint tools and colours to recreate the work of an artist</p> <p>I can explain that pictures can be made in lots of different ways</p> <p>Equipment: IPads/Laptops or Laptops (keyboards and trackpads)</p> <p>Apps, Software, Sites: paintz.app</p>	<p>Moving a Robot</p> <p>I can experiment with turn and move commands to move a robot</p> <p>I can start a sequence from the same place</p> <p>I can predict the outcome of a sequence of commands</p> <p>I can follow an instruction</p> <p>I can give directions</p> <p>Equipment: iPads BeeBots</p>	<p>Grouping Data</p> <p>I can group objects in more than one way</p> <p>I can decide how to group objects to answer a question</p> <p>I can record and share what I have found</p> <p>Equipment: Laptops or iPads/Laptops</p> <p>Apps, Software, Sites: Microsoft Office Suite or Google Drive, Docs etc.</p>	<p>Digital Writing</p> <p>I can change the font</p> <p>I can write a message on a computer and on paper</p> <p>I can compare using a computer with using a pencil and paper</p> <p>Equipment: Laptops or iPads/Laptops</p> <p>Apps, Software, Sites: Microsoft Office Suite or Google Drive, Docs etc.</p>	<p>Introduction to Animation</p> <p>I can use commands to move a sprite</p> <p>I can plan algorithms for different parts of a task</p> <p>I can predict the outcome of a sequence of commands</p> <p>I can build sequences of blocks to match my design</p> <p>Equipment: IPads/Laptops</p> <p>Apps, Software, Sites: ScratchJr (IPads/Laptops)</p>

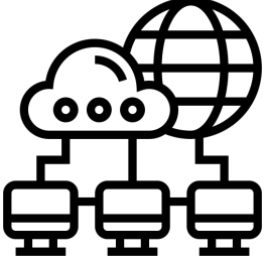






Equipment:
IPads/Laptops or
Laptops (keyboards
and trackpads)

Apps, Software, Sites:
paintz.app

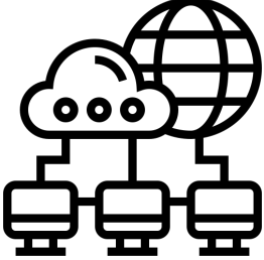






**Apps, Software,
Sites:**
BeeBot App
(iPads)

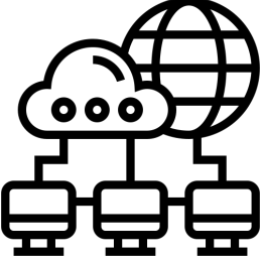






<p>2-year cycle Year B</p>	<p><i>Technology Around us</i></p> 	<p><i>Creating Media</i></p> 	<p><i>Programming</i></p> 	<p><i>Data and Information</i></p> 	<p><i>Creating media/Effective use of tools</i></p> 	<p><i>Programming</i></p> 
<p>Y1/2</p> 	<p>Information Technology around us!</p> <p>I can recognise different types of computers used in school</p> <p>I can identify a computer is a part of information technology</p> <p>I can describe some of the uses of computers and identify information technology in Balderstone school</p>	<p>Digital Photography</p> <p>I can capture digital photos and talk about my experience</p> <p>I can experiment with different light sources</p> <p>I can focus on an object</p> <p>I can identify which images are real and which have been changed</p> <p>Equipment: iPads (cameras)</p>	<p>Robot Algorithms</p> <p>I can plan algorithms for different parts of a task</p> <p>I can predict the outcome of a sequence of commands</p> <p>I can test and debug each part of the program</p> <p>Equipment: iPads BeeBots</p>	<p>Pictograms</p> <p>I can enter data onto a computer</p> <p>I can use a tally chart to create a pictogram</p> <p>I can give simple examples of why information should not be shared</p> <p>Equipment: iPads/Laptops</p> <p>Apps, Software, Sites:</p>	<p>Making Music</p> <p>I can use a computer to create a musical pattern using three notes</p> <p>I can connect images with sounds</p> <p>I can use a computer to experiment with pitch and duration</p> <p>Equipment: iPads/Laptops</p> <p>Apps, Software, Sites:</p>	<p>An Introduction to Quizzes</p> <p>I can use commands to move a sprite</p> <p>I can plan algorithms for different parts of a task</p> <p>I can predict the outcome of a sequence of commands</p> <p>I can build sequences of blocks to match my design</p> <p>Equipment:</p>

	<p>I can identify information technology beyond Balderstone school I recognise that choices are made when using information technology</p> <p>I can show how to use IT safely</p> <p>Equipment:</p> <p>Apps, Software, Sites: Links to key concepts from Education for a Connected world</p>	<p>Apps, Software, Sites: https://pixlr.com/x/</p>	<p>Apps, Software, Sites: BeeBot App (iPads)</p>	<p>https://www.j2e.com/jit5#pictogram</p>	<p>musiclab.chromeexperiments.com/Song-Maker</p>	<p>iPads/Laptops</p> <p>Apps, Software, Sites: ScratchJr (iPads/Laptops)</p>
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<p>Lower KS2</p> <p>2-year cycle</p> <p>Year A</p>	<p>Networks and Systems</p> 	<p>Creating media/Effective use of tools</p> 	<p>Sequencing Sounds</p> 	<p>Data and Information</p> 	<p>Creating media/Effective use of tools</p> 	<p>Programming</p> 
<p>Y3/4</p> 	<p>Connecting computers</p> <p>I can suggest differences between using digital devices and non-digital tools</p> <p>I can explain the role of a switch, server, and wireless access point in a network</p> <p>I can suggest differences between using digital devices and non-digital tools</p> <p>Equipment: IPads/Laptops or Laptops (keyboards and trackpads) Webcams, mice, microphones iPad</p> <p>Apps, Software, Sites:</p>	<p>Animation</p> <p>I can create an effective stop frame animation</p> <p>I can create a storyboard</p> <p>I can add other media to my animation</p> <p>Equipment: iPads</p> <p>Apps, Software, Sites: iMotion iMovie</p>	<p>Editing sounds</p> <p>I can edit sections of an audio recording</p> <p>I can suggest improvements to a digital recording</p> <p>Equipment: Laptops</p> <p>Apps, Software, Sites: Audacity</p>	<p>Branching databases</p> <p>I can create two groups of objects separated by one attribute</p> <p>I can compare two branching database structures</p> <p>I can explain what a pictogram tells me</p> <p>Equipment: iPads</p>	<p>Desktop Publishing</p> <p>I can compare work made on desktop publishing to work created by hand</p> <p>I can identify the uses of desktop publishing in the real world</p> <p>I can explain the difference between text and images</p> <p>Equipment: IPads/Laptops or Laptops</p> <p>Apps, Software, Sites: Adobe Spark or Canva Keynote & Pages</p>	<p>Events and Actions in Programming (Year 3)</p>

	Google Docs or Microsoft Word paintz.app		Apps, Software, Sites: Audacity/Garage Band			
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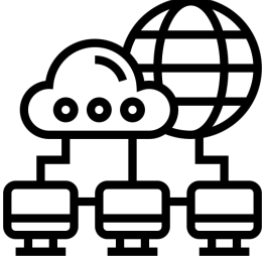






<p>Lower KS2</p> <p>2-year cycle</p> <p>Year B</p>	<p>Networks and Systems</p> 	<p>Creating media/Effective use of tools</p> 		<p>Data and Information</p> 	<p>Creating media/Effective use of tools</p> 	<p>Programming</p> 
	<p>The Internet (Year 4)</p> <p>I can explain why I need to think carefully before I share or reshare content</p> <p>I can describe how to access websites on the WWW</p> <p>I can create media which can be found on websites</p> <p>I can explain why some information I find online may not be honest, accurate, or legal.</p> <p>Equipment: IPads/Laptops</p> <p>Apps, Software, Sites: https://padlet.com/</p>	<p>Audio Production</p>	<p>Repetition in Shapes</p> <p>I can change the composition of an image by selecting parts of it</p> <p>I can identify how an image has been retouched</p> <p>I can combine parts of images to create new images</p> <p>Equipment: Laptops</p> <p>Apps, Software, Sites: paint.net (app)</p>	<p>Data Logging</p>	<p>Photo Editing</p>	<p>Repetition in Games (Year 4)</p> <p>I can modify loops to produce a given outcome</p> <p>I can refine the algorithm in my design</p> <p>Equipment: IPads/Laptops or Laptops</p> <p>Apps, Software, Sites: Scratch 3</p>

<p>Upper KS2 2-year cycle Year A</p>	<p>Networks and Systems</p> 	<p>Creating media/Design and development</p> 		<p>Data and Information</p> 	<p>Creating media/Effective use of tools</p> 	<p>Programming</p> 
<p>Y5/6</p> 	<p>Sharing information (Year 5)</p> <p>I can explain that data is transferred over networks in packets</p> <p>I can recognise that working together on the internet can be public or private</p> <p>I can explain that the internet allows different media to be shared</p> <p>Equipment: IPads/Laptops</p> <p>Apps, Software, Sites: https://padlet.com/ Google Slides</p>	<p>Video Production (Year 5)</p> <p>I can plan a video project using a storyboard</p> <p>I can select a suitable device and software to capture my video</p> <p>I can select the correct tools to make edits to my video</p> <p>I can demonstrate suitable methods of using a digital device to capture my video</p> <p>I can demonstrate the safe use and handling of devices</p> <p>Equipment: IPads/Laptops</p>	<p>Selection in Physical Computing (Year 5)</p>	<p>Flat-File databases</p>	<p>Vector Drawing (Year 5)</p> <p>I can change the order of layers in a vector drawing</p> <p>I can identify the main drawing tools</p> <p>Equipment: IPads/Laptops</p> <p>Apps, Software, Sites: Google Drawings</p>	<p>Selection in Quizzes (Year 5)</p> <p>I can create a program with different outcomes using selection</p> <p>I can design the flow of a program which contains 'if... then... else...'</p> <p>Equipment: IPads/Laptops or Laptops</p> <p>Apps, Software, Sites: Scratch 3</p>

		iPads Laptops				
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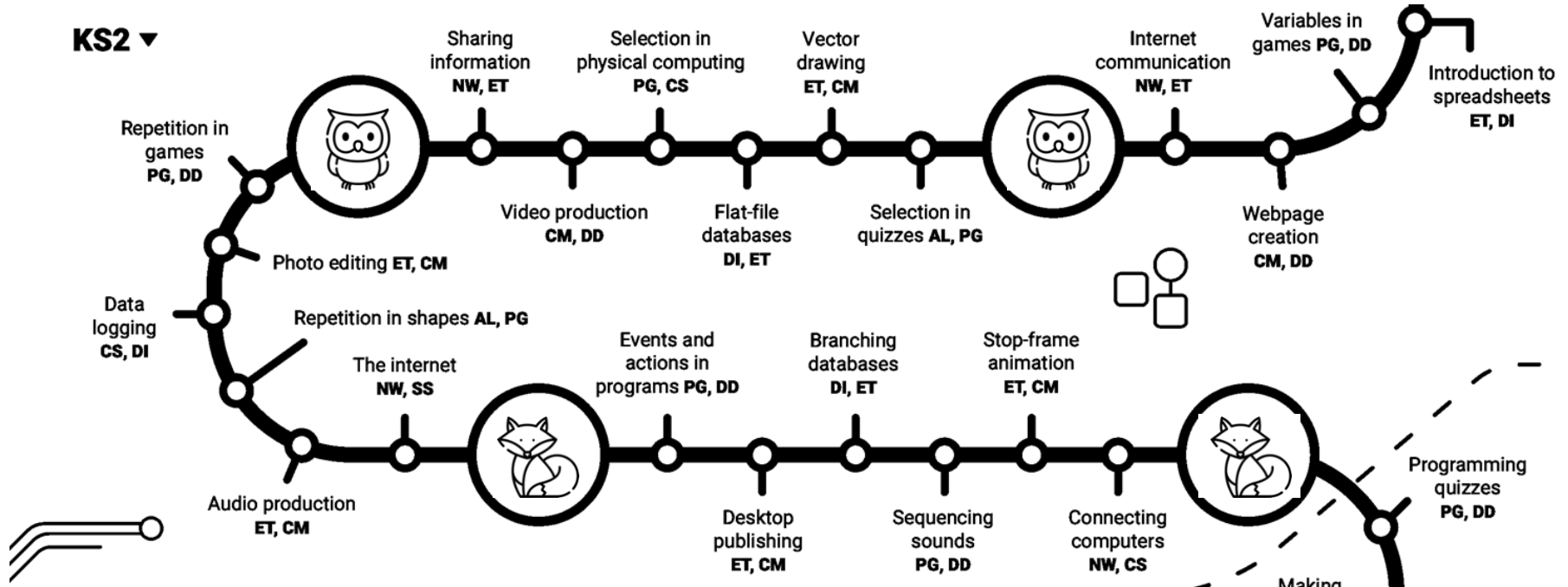
**Apps, Software,
Sites:**

Flipgrid – *set up*
Google Classroom
link
Movie Maker

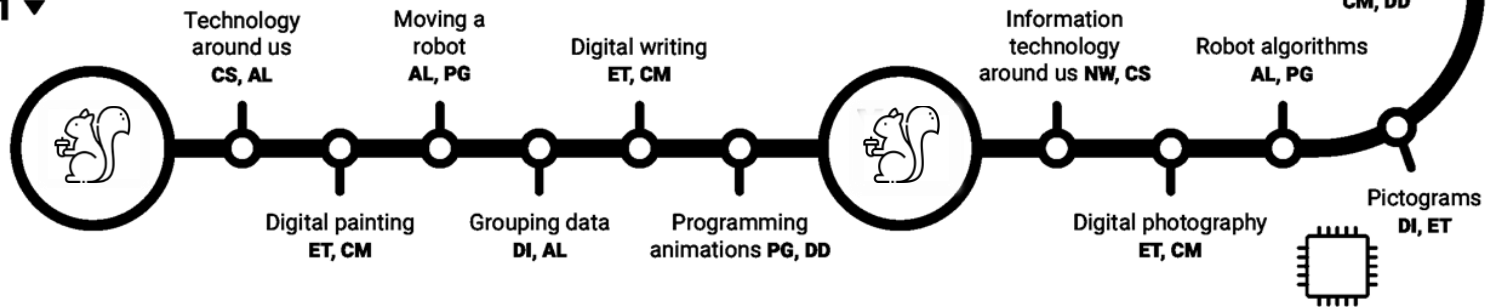
<p>Upper KS2</p> <p>2-year cycle</p> <p>Year B</p>	<p>Networks and Systems</p> 	<p>Creating media/Design and development</p> 		<p>Data and Information</p> 	<p>Creating media/Effective use of tools</p> 	<p>Programming</p> 
	<p>Internet Communication (Year 6)</p> <p>I can complete a web search to find specific information</p> <p>I can compare different methods of communicating on the internet</p> <p>I can describe some of the ways that search results can be influenced</p> <p>I can recognise some of the limitations of search engines</p> <p>Equipment: IPads/Laptops</p>	<p>Web Page Creation (Year 6)</p> <p>I can explore a website</p> <p>I can create hyperlinks to link to other people's work</p> <p>I can evaluate the user experience of a website</p> <p>I can add content to my own web page</p> <p>I can describe what is meant by the term 'fair use'</p> <p>I can find copyright-free images</p> <p>Equipment: IPads/Laptops</p>	<p>Variables in games</p> <p>I can make use of an event in a program to set a variable</p> <p>I can create algorithms for my project</p> <p>Equipment: IPads/Laptops or Laptops</p> <p>Apps, Software, Sites: Scratch 3</p>	<p>3D Modelling (Year 6)</p> <p>I can create digital 3D objects of an appropriate size</p> <p>I can identify the 3D shapes needed to create a model of a real-world object</p> <p>Equipment: IPads/Laptops</p> <p>Apps, Software, Sites: Tinkercad – <i>set up class link</i></p>	<p>Introduction to Spreadsheets</p> <p>I can build a data set in a spreadsheet application</p> <p>I can construct a formula in a spreadsheet</p> <p>I can produce a graph</p> <p>Equipment: IPads/Laptops or Laptops</p> <p>Apps, Software, Sites: Google Sheets or MS Excel Google Maps</p>	<p>Sensing</p> <p>I can modify a program to achieve a different outcome</p> <p>I can use a variable in an if... then... else... statement to select the flow of a program</p> <p>Equipment: Laptops</p> <p>Apps, Software, Sites: Microbits</p>

		Apps, Software, Sites: Google Sites Pixabay				
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KS2 ▼







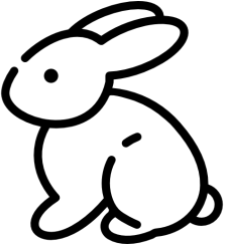


KS1 ▼



National Centre for Computing Education



	<p>Technology Around us</p> 	<p>Creating Media</p> 	<p>Programming</p> 	<p>Data and Information</p> 	<p>Creating media/Effective use of tools</p> 	<p>Programming</p> 
<p>EYFS</p> 	<p>Technology around us</p> <p>I can locate examples of technology in the classroom</p> <p>I can explain technology as something that helps us</p> <p>I can identify rules to keep us safe and healthy when we are using technology in and beyond the home</p> <p>I can identify that a computer is a part of information technology</p> <p>I can open a file</p> <p>I can move and resize images</p> <p>I can explain how information technology helps people</p> <p>I can recognise that information technology can be connected</p>	<p>Digital Painting</p> <p>I can draw lines on a screen and explain which tools I used</p> <p>I can choose appropriate paint tools and colours to recreate the work of an artist</p> <p>I can explain that pictures can be made in lots of different ways</p> <p>Equipment: IPads/Laptops or Laptops (keyboards and trackpads)</p> <p>Apps, Software, Sites: paintz.app</p>	<p>Moving a Robot</p> <p>I can experiment with turn and move commands to move a robot</p> <p>I can start a sequence from the same place</p> <p>I can predict the outcome of a sequence of commands</p> <p>I can follow an instruction</p> <p>I can give directions</p> <p>Equipment: iPads BeeBots</p>	<p>Grouping Data</p> <p>I can group objects in more than one way</p> <p>I can decide how to group objects to answer a question</p> <p>I can record and share what I have found</p> <p>Equipment: Laptops or iPads/Laptops</p> <p>Apps, Software, Sites: Microsoft Office Suite or Google Drive, Docs etc.</p>	<p>Digital Writing</p> <p>I can change the font</p> <p>I can write a message on a computer and on paper</p> <p>I can compare using a computer with using a pencil and paper</p> <p>Equipment: Laptops or iPads/Laptops</p> <p>Apps, Software, Sites: Microsoft Office Suite or Google Drive, Docs etc.</p>	<p>Introduction to Animation</p> <p>I can use commands to move a sprite</p> <p>I can plan algorithms for different parts of a task</p> <p>I can predict the outcome of a sequence of commands</p> <p>I can build sequences of blocks to match my design</p> <p>Equipment: IPads/Laptops</p> <p>Apps, Software, Sites: ScratchJr (IPads/Laptops)</p>

	<p>Equipment: iPads/Laptops or Laptops (keyboards and trackpads)</p> <p>Apps, Software, Sites: paintz.app</p>		<p>Apps, Software, Sites: BeeBot App (iPads)</p>			
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