



Year Group	<u>Learning Objectives</u>
FS1 & 2	<p>Knows how to operate simple equipment e.g. turns on CD player and uses remote control.</p> <ul style="list-style-type: none"> <li>• Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones.</li> <li>• Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images e.g. programmable toys and knowing 'forwards' and 'backwards'.</li> <li>• Knows that information can be retrieved from computers</li> <li>• Completes a simple program on a computer.</li> <li>• Uses ICT hardware to interact with age-appropriate computer software.</li> <li>• Log on to school system and be able to load programs.</li> <li>• Sort and match objects on screen.</li> </ul> <p><b>Early learning goal:</b> Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.</p>
Year 1	<p><u>To code</u></p> <p>To begin to control motion by specifying the number of steps to travel, direction and turn.</p> <p>To begin to add text strings, show and hide objects.</p> <p>To begin to select sounds and control when they are heard.</p> <p>To begin to control when drawings appear and set the pen colour, size and shape.</p> <p>To begin to specify user inputs (such as clicks) to control events.</p> <p>To begin to specify the nature of events such as single event or loop.</p> <p>To begin to create conditions for actions for waiting for a user input (such as a response to a question).</p> <p><u>To connect</u></p> <p>To begin to understand online risks and learn/follow online rules for safety.</p> <p>To navigate simple webpages using forward, back and the home button.</p> <p><u>To communicate</u></p> <p>To begin to use a range of applications to communicate ideas, work and messages.</p> <p>To begin to develop keyboard skills to be able to word process simple texts.</p> <p>To recognise common uses of information technology beyond school.</p> <p><u>To collect</u></p> <p>To begin to capture and download images/video from devices such as a camera.</p> <p>To begin to collect data and present using tools to make a pictogram.</p>



<p>Year 2</p>	<p><u>To code</u>                  To control motion by specifying the number of steps to travel, direction and turn.                  To add text strings, show and hide objects and change the feature of an object.                  To select sounds and control when they are heard, their duration and volume.                  To control when drawings appear and set the pen colour, size and shape.                  To specify user inputs (such as clicks) to control events.                  To specify the nature of events such as single event or loop.                  To begin to create conditions for actions for waiting for a user input (such as a response to a question).                  To understand what an algorithm is.</p> <p><u>To connect</u>                  To understand online risks and the age rules for sites.                  To communicate safely and respectfully online, keeping personal information private.                  To use pre-saved selection of websites and resources to answer research questions.</p> <p><u>To communicate</u>                  To use a range of applications to communicate ideas, work and messages.                  To develop keyboard skills to be able to word process simple texts.                  To create pictures using a variety of digital tools and applications.                  To recognise common uses of information technology beyond school.</p> <p><u>To collect</u>                  To capture and download images/video from devices such as a camera.                  To collect data and present using tools to make a pictogram.</p>
<p>Year 3</p>	<p><u>To code</u>                  To begin to use specified screen coordinates to control movement.                  To begin to set the appearance of objects and create a sequence of changes.                  To begin to create and edit sounds. Control when they are heard, their volume, duration and rests.                  To control the shade of pens.                  To begin to be able to specify conditions to trigger events.                  To begin to use IF and THEN conditions to control events or objects.                  To begin to use variables to store a value.</p> <p><u>To connect</u>                  To understand the risks posed by online communications.                  To understand what cyber-bullying is.                  To begin to be able to perform effective web searches.</p> <p><u>To communicate</u>                  To begin to use some of the advanced features of applications and devices in order to communicate ideas, work or messages.                  To combine text, images and sounds.                  To begin to understand how to use email.</p> <p><u>To collect</u>                  To input data into data base; generate graphs and charts.                  To collect data and present as a graph.</p>



<p>Year 4</p>	<p><u>To code</u>                  To use specified screen coordinates to control movement.                  To set the appearance of objects and create a sequence of changes.                  To create and edit sounds. Control when they are heard, their volume, duration and rests.                  To the shade of pens.                  To be able to specify conditions to trigger events.                  To use IF and THEN conditions to control events or objects.                  To use variables to store a value.                  To use the functions - define, set, change, show and hide to control the variables.                  To use the reporter operators to perform calculations.</p> <p><u>To connect</u>                  To understand the risks posed by online communications.                  To understand what cyber-bullying is.</p> <p><u>To communicate</u>                  To use some of the advanced features of applications and devices in order to communicate ideas, work or messages professionally.                  To create text, images and sounds for specific audience (capturing images from range of sources). Use in presentation.                  To plan and create animation using a variety of medium (clay, toys, drawing)</p> <p><u>To collect</u>                  To use spreadsheets (linked to maths).</p>
<p>Year 5</p>	<p><u>To code</u>                  To begin to set IF conditions for movements. Specify types of rotation giving the number of degrees.                  To begin to change the position of objects between screen layers (send to back, bring to front).                  To begin to upload sounds from a file and edit them.                  To begin to combine the use of pens with movement to create interesting effects.                  To set events to control other events by 'broadcasting' information as a trigger.                  To begin to use IF THEN ELSE conditions to control events or objects.                  To begin to use a range of sensing tools to control events or actions.                  To begin to use lists to create a set of variables.                  To begin to use Boolean operators to define conditions.</p> <p><u>To connect</u>                  To begin to collaborate with others online on sites approved and moderated by teachers.                  To begin to understand more of the dangers online, how to minimise risks and report problems.                  To begin to understand about legal and illegal downloads.                  To begin to understand how simple networks are setup and used.                  To understand the effects of cyber-bullying.</p> <p><u>To communicate</u>                  To begin to be able to choose the most suitable application or device for the purpose of communication.</p> <p><u>To collect</u>                  To create a formula in a spreadsheet.</p>



Year 6	<p><u>To code</u></p> <p>To set IF conditions for movements. Specify types of rotation giving the number of degrees. To change the position of objects between screen layers (send to back, bring to front). To upload sounds from a file and edit them. Add effects such as fade in and out and control their implementation. To combine the use of pens with movement to create interesting effects. To set events to control other events by 'broadcasting' information as a trigger. To use IF THEN ELSE conditions to control events or objects. To use a range of sensing tools to control events or actions. To use lists to create a set of variables. To use Boolean operators to define conditions.</p> <p><u>To connect</u></p> <p>To collaborate with others online on sites approved and moderated by teachers. To understand more of the dangers online, how to minimise risks and report problems. To understand about legal and illegal downloads. To understand how simple networks are setup and used. To understand the effects of cyber-bullying. To compare bias and accuracy on web.</p> <p><u>To communicate</u></p> <p>To be able to choose the most suitable application or device for the purpose of communication. To use many of the advanced features in order to create high quality, professional or efficient communications. To create presentations with range of links, images and sounds. To manipulate images. To design own webpage.</p> <p><u>To collect</u></p> <p>To continue developing formula on a spreadsheet</p>
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