

Computing Curriculum Map

Early Years					
Autumn		Spring		Summer	
1 st	2 nd	1 st	2 nd	1 st	2 nd
<p style="text-align: center;">Wind-up toys and pulleys</p> <p>Repeat actions that have an effect. Explore how things work</p> <p style="text-align: center;">Aerial views</p> <p><i>Exploring the technology behind aerial view photography.</i></p>		<p style="text-align: center;">Mark making and cogs</p> <p>Extend the skills children develop as they become familiar with simple equipment, such as twisting or turning a knob.</p> <p>Draw young children’s attention to pieces of ICT apparatus they see or that they use with adult supervision. Begin to use Google Earth.</p> <p style="text-align: center;">Making music</p> <p><i>Using various apps to make music.</i></p>		<p style="text-align: center;">Peg boards and letter making</p> <p><i>Exploring similarities and differences between species- Taking photos</i></p> <p><i>Comparing homes from around the world.</i></p> <p style="text-align: center;">Pictures of nature</p> <p><i>Using a variety of digital devices to capture nature.</i></p>	
Year 1					
Autumn		Spring		Summer	
1 st	2 nd	1 st	2 nd	1 st	2 nd
Technology around us	Digital painting	Moving a robot	Grouping data	Digital writing	Programming animations

<i>Where is technology found in schools?</i>	<i>How is art created digitally different to art not created digitally?</i>	<i>How can we use short algorithms to move a robot?</i>	<i>How can we sort and group objects based on their properties?</i>	<i>How can we use a computer to create and format text?</i>	<i>How can we tell stories through designing and programming the movement of a character?</i>
Year 2					
Autumn		Spring		Summer	
1st	2nd	1st	2nd	1st	2nd
<p>IT around us</p> <p><i>What is information technology and how does it make our world better?</i></p>	<p>Digital photography</p> <p><i>How can we capture and change photographs for different purposes?</i></p>	<p>Robot algorithms</p> <p><i>How can we create and debug programs?</i></p>	<p>Pictograms</p> <p><i>How can tally charts be presented on a computer?</i></p>	<p>Making music</p> <p><i>How can we create music on a computer?</i></p>	<p>Programming quizzes</p> <p><i>How can we make an interactive quiz?</i></p>
Year 3					
Autumn		Spring		Summer	
1st	2nd	1st	2nd	1st	2nd
Connecting computers	Stop-frame animation	Sequencing sounds	Branching databases	Desktop publishing	Events and actions

<i>How are devices connected to form networks?</i>	<i>How can we capture and edit images to produce stop-frame animation?</i>	<i>How can we create 'sequences' in a block-based programming language to make music?</i>	<i>How can we use branching databases to group objects?</i>	<i>How can we modify text, images and page layout in a document?</i>	<i>How can we write algorithms that trigger sequences of actions?</i>
Year 4					
Autumn		Spring		Summer	
1st	2nd	1st	2nd	1st	2nd
<p style="text-align: center;">The internet</p> <p style="text-align: center;"><i>Why is it important to evaluate online content?</i></p>	<p style="text-align: center;">Audio production</p> <p style="text-align: center;"><i>How can we capture and edit audio to produce a podcast?</i></p>	<p style="text-align: center;">Repetition in shapes</p> <p style="text-align: center;"><i>How can we use count-controlled loops when drawing shapes?</i></p>	<p style="text-align: center;">Data logging</p> <p style="text-align: center;"><i>How and why is data collected over time?</i></p>	<p style="text-align: center;">Photo editing</p> <p style="text-align: center;"><i>How can we edit digital images and what is the point of doing so?</i></p>	<p style="text-align: center;">Repetition in games</p> <p style="text-align: center;"><i>How can we use count-controlled loops when creating a game?</i></p>
Year 5					
Autumn		Spring		Summer	
1st	2nd	1st	2nd	1st	2nd
<p style="text-align: center;">Systems and searching</p>	<p style="text-align: center;">Video production</p>	<p style="text-align: center;">Selection in physical computing</p>	<p style="text-align: center;">Flat-file databases</p>	<p style="text-align: center;">Vector drawing</p>	<p style="text-align: center;">Selection in quizzes</p>

<i>How is information transferred between systems and devices?</i>	<i>What are the steps required to create video content?</i>	<i>When programming, how does 'selection' affect the outcome?</i>	<i>How are flat-file databases used to organise data in records?</i>	<i>How can we use different drawing tools to help us to create images?</i>	<i>How can we use 'selection' to design and code a quiz?</i>
Year 6					
Autumn		Spring		Summer	
1st	2nd	1st	2nd	1st	2nd
Communication	Web page creation	Variables in games	Spreadsheets	3D modelling	Sensing
<i>How is data and information transferred over the internet?</i>	<i>How can we design, create and evaluate our own websites?</i>	<i>Why are variables used when designing and coding a game?</i>	<i>What can we use spreadsheets for and why are they important?</i>	<i>How can we use computers to produce 3D models?</i>	<i>How can we build and test programs?</i>