

# Computing Curriculum Map

Year Group	Autumn	Spring	Summer
<b>Pre-School</b>	<p><u>Exploring technology in Pre-School</u></p> <ul style="list-style-type: none"> <li>• Use buttons, flaps and simple mechanisms and begin to operate them.</li> <li>• Use phones, ipads, cameras (pretend) in the home corner</li> <li>• Switch on or off some equipment using the IWB/iPad</li> <li>• Operate mechanical toys e.g. friction cars, wind up toys</li> <li>• Exploring electronic toys</li> <li>• Use photocopiers to photocopy work</li> <li>• Explore equipment such as torches, radios, karaoke machines</li> <li>• Online safety - talk about ICT apparatus, what it does, what they can do with it and how to use it safely.</li> </ul>		
<b>Nursery</b>	<p><u>Exploring technology in Nursery</u></p> <ul style="list-style-type: none"> <li>• Operate simple equipment, turns them on and off and uses a remote control</li> <li>• Uses technological toys with knobs and pulleys</li> <li>• Uses real objects to explore and play such as cameras and 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.</li> <li>• Use photocopiers to photocopy work</li> <li>• Explores different computer programmes on the IWB (Purple Mash, 2Simple)</li> <li>• Operates Bee-Bots and programmes them</li> <li>• Reminded about Online safety and how they only use programmes that adults allow them to use both in Nursery and at home</li> <li>• Online teaching programmes such as Phonics Play, Cbeebies and story time.</li> </ul>		
<b>Reception</b>	<p>Using equipment</p> <p>Fairytales</p> <p>Winter</p>	<p>Animals</p> <p>Traditional Tales</p>	<p>Minibeasts</p> <p>Superheroes</p> <p>Technology around us</p>
<b>1</b>	<p>Online Safety</p> <p>IT Around Us (Keeping myself safe online)</p> <p>Digital Painting (Design a card- celebration)</p>	<p>Online Safety</p> <p>Digital Writing (Write about school today compared to Victorian times)</p> <p>Programming- Moving a robot (Floor robot to visit famous buildings)</p>	<p>Online Safety</p> <p>Grouping Data (How I travel to school - Venn diagram of class)</p> <p>Introduction to animation (Animation about Queen Elizabeth 1<sup>st</sup> or 2<sup>nd</sup>)</p>

		<p>Lego Wedo Workshop- Plants- Physical computing ( Naming plants of plants by building a Lego model which moves through code)</p>	
2	<p>Online Safety</p> <p>Digital Photography ( Taking photos of Southgate)</p> <p>Making Music ( Creating Turkish music)</p>	<p>Online Safety</p> <p>Programming - Robot algorithms ( Creating Bee Bot mats to land on celebratory food of different countries)</p> <p>( Create Queen Victoria algorithms)</p>	<p>Online Safety</p> <p>Pictograms ( Create a class pictogram of favourite types of clothing)</p> <p>Programming - An introduction to quizzes ( Create a Stone Age quiz)</p> <p>Workshop Materials- Physical computing- Makey Makey kits ( Pupils to discuss properties of materials then link them to a circuit board to see if they create sound/movement)</p>
3	<p>Online Safety</p> <p>Connecting Computers (Review how Ancient Egyptians communicated related to the present time)</p> <p>Creating an animation ( Creating an Indus Valley animation)</p>	<p>Online Safety</p> <p>Programming -Sequencing in music (Making music for a Sitar)</p> <p>Desktop publishing ( Presentation about Ancient Greece)</p>	<p>Online Safety</p> <p>Branching Databases ( Create a database about Ancient Greece)</p> <p>Programming- Events and actions ( Program a maze about Ancient Greek gods/goddesses)</p> <p>Year 3 Workshop- Light ( Makey Makey- physical computing) (Test to see which materials light up a circuit board using diodes through code)</p>
4	<p>Online Safety</p> <p>The Internet ( Review how Ancient Romans shared or found out information compared to the present time)</p> <p>Programming - Repetition in shapes ( Create Roman patterns)</p>	<p>Online Safety Photo Editing ( Take and edit photos of Roman sculpture)</p> <p>Audio editing ( podcast) ( Create a podcast about the Byzantine empire)</p> <p>Computing Workshop- Circuits- (Makey Makey- physical computing)</p>	<p>Online Safety</p> <p>Programming- Repetition in games B  ( Create an earthquake game)</p> <p>Data Loggers ( sound) ( Review- linked to how climate change can affect sound)</p>

		( Pupils to test materials that conduct electricity by building a circuit and coding)	
<b>5</b>	<p>Online Safety</p> <p>Programming- Selection in physical computing (Crumble Kits) ( Create light infused art- California)</p> <p>Video Editing ( Create a video about Islam)</p>	<p>Online Safety</p> <p>Create a vector drawing ( Islamic shapes) ( Create Islamic patterns)</p> <p>Computer systems and networks- sharing information ( Create a collaborative online project about Norse culture)</p>	<p>Online Safety</p> <p>Flat file databases ( Create a Rainforest database)</p> <p>Selection in quizzes ( Create an Inca quiz)</p> <p>Workshop Forces Lego Wedo ( Physical computing) ( Build a robot to test forces)</p>
<b>6</b>	<p>Online Safety</p> <p>Programming -variables in games (Create a game about London V North America)</p> <p>Web page creation- (London) ( Create a web page about London)</p>	<p>Online Safety</p> <p>Communication ( World Wide Web)</p> <p>Sensing ( Microbits- physical computing) ( Create Microbit images of Judaism)</p>	<p>Online Safety</p> <p>3D Modelling ( Create a European landmark)</p> <p>Spreadsheets- Living in the wider world ( Organising data from WW2)</p> <p>Year 6 Workshop - Light ( Crumble kits- physical computing) ( Create a traffic light system with varying sparkle attachments to test brightness linked to voltage)</p>