
















# Long term curriculum plan- computing



|        | Autumn 1  | Autumn 2   | Spring 1  | Spring 2   | Summer 1  | Summer 2  |
|--------|---|--|---|--|---|---|
| Year 1 | <p><b>What is a computer?</b><br/>Technology around us.</p>    | <p><b>How can we paint using computers?</b><br/>Creating media (digital painting)</p>   | <p><b>Can you make a robot move?</b><br/>Programming A- Moving a robot</p>                        | <p><b>How can you group data?</b><br/>Data and Information- Grouping data.</p>  | <p><b>How can we write using computers?</b><br/>Creating media- Digital writing</p>    | <p><b>Can you make a sprite move?</b><br/>Programming- Introduction to animation.</p>                      |
| Year 2 | <p><b>Why is IT important to our everyday lives?</b><br/>Information technology around us.</p>   | <p><b>Can you capture and edit photos?</b><br/>Creating media- Digital photography</p>  | <p><b>How does a robot move?</b><br/>Programming A- Robot Algorithms</p>                          | <p><b>Can you use a pictogram to answer questions?</b><br/>Pictograms</p>       | <p><b>Can you create music using a computer?</b><br/>Creating media- Making music</p>  | <p><b>How do you make a quiz?</b><br/>An introduction to quizzes</p>                                       |
| Year 3 | <p><b>Can you explain the difference between digital and non-digital devices?</b><br/>Connecting computers.</p>   | <p><b>Can you make a short film?</b><br/>Creating media- animation.</p>                | <p><b>Can you make a piece of music?</b><br/>Programming A- sequencing sounds.</p>               | <p><b>How do you create a branching database?</b><br/>Branching databases</p>  | <p><b>What is desktop publishing?</b><br/>Desktop publishing</p>                      | <p><b>Can you control a sprite around a maze?</b><br/>Programming B- Events and actions in programs.</p>  |
| Year 4 | <p><b>Is the internet a good or bad thing and why?</b><br/>Computing systems and networks- The Internet</p>   | <p><b>Can you create a podcast?</b><br/>Creating media- Audio editing</p>             | <p><b>Can you create a count-controlled loop?</b><br/>Programming A- repetition in shapes.</p>  | <p><b>What is a data logger?</b><br/>Data logging.</p>                        | <p><b>Is editing a good or bad thing?</b><br/>Creating media- photo editing.</p>     | <p><b>How do you create a game using repetition?</b><br/>Programming B- repetition in games</p>          |



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|        |   |  |   |  |  |   |
| Year 5 | <p><b>How do you stay safe online?</b></p> <p>Computing systems and networks- Sharing information</p>   | <p><b>Can you create a short video?</b></p> <p>Creating media- Video editing</p>    | <p><b>What is a Crumble controller?</b></p> <p>Programming A- A selection of physical computing.</p>  | <p><b>What is a flat-file database?</b></p> <p>Flat file databases.</p>                             | <p><b>How is a vector drawing made?</b></p> <p>Creating media- vector drawing.</p>      | <p><b>Can you plan and make a quiz?</b></p> <p>Programming B- Selection in quizzes.</p>  |
| Year 6 | <p><b>How can we use the World Wide Web as a communication tool?</b></p> <p>Computing systems and networks- Communication</p>    | <p><b>Can you create a web page?</b></p> <p>Creating media- Web page creation.</p>  | <p><b>How can you design a game?</b></p> <p>Programming A- variables in games</p>                     | <p><b>Can you plan an event using a spreadsheet?</b></p> <p>Data and information- Spreadsheets</p>  | <p><b>Can you design and make a 3D model?</b></p> <p>Creating media- 3D modelling.</p>  | <p><b>Can you create your own program?</b></p> <p>Programming B- sensing</p>             |