



## Computing Long Term Progression Map

Our children will be:  
- digitally literate  
- competent computer scientists  
- responsible, confident users

We use Purple Mash Long Term Planning for Computing.  
We teach Computing every half term.

|               | Computer Science  | Information Technology   | Digital Literacy   |
|---------------|---|--|--|
| <b>EYFS</b>   | <p>I can talk about where I am moving a toy vehicle whilst I am moving it.<br/>I can describe the route taken by a toy vehicle.<br/>I can follow directions to make a route for a toy vehicle.<br/><br/>I can plan a route for a toy vehicle.<br/>I can follow my own plan for where the toy vehicle should move. I can make a floor robot move.<br/><br/>I can control the forwards, backwards and rotation of a floor robot one step at a time.<br/>I can program a 3-step route for a floor turtle.<br/>I can predict where a floor robot will end up when given the instructions for a 2 or 3 step route.<br/>I can plan a route for a floor robot and then carry out these instructions one step at a time.<br/>I can plan a route for a floor robot and then carry out these instructions more than one step at a time.</p> | <p>I can select colours when painting on the computer.<br/>I can draw pictures on the computer to go with my work.<br/>I can use a computer to draw with different widths of pens.<br/>I can try the different tools that I can draw with on the computer.<br/>I can use the undo button correctly.<br/>I can use the erase button.<br/>I can use a touchscreen device purposefully.<br/>I can draw on a computer using a mouse.</p> | <p>I can talk about what technology is used at home.<br/>I can talk about what technology is used outdoors.<br/>I can talk about what technology is used in the world around me.<br/><br/>I can explain how my work on the computer belongs to me and other people's work belongs to them.<br/>I can explain what it means for something to be private.<br/>I can talk about how my body feels when I am not comfortable with something.<br/><br/>I know who can help me when I am feeling worried.<br/>I can show that I understand how to be kind to others.<br/>I can choose activities in my free time that help me to be healthy.</p> |
| <b>Year 1</b> | <p><b>Units 1.1-1.9</b><br/>Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.<br/><br/>Create and debug simple programs.<br/><br/>Use logical reasoning to predict the behaviour of simple programs.</p>  | <p><b>Units 1.1-1.9</b><br/>Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</p>   | <p><b>Units 1.1-1.9</b><br/>Recognise common uses of information technology beyond school.<br/><br/>Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</p>   |
| <b>Year 2</b> | <p><b>Units 2.1-2.8</b><br/>Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.<br/><br/>Create and debug simple programs.</p>  | <p><b>Units 2.1-2.8</b><br/>Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</p>   | <p><b>Units 2.1-2.8</b><br/>Recognise common uses of information technology beyond school.<br/><br/>Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</p>   |

|                   |   |   |  |
|-------------------|---|---|--|
|                   | Use logical reasoning to predict the behaviour of simple programs.  |   |  |
| <b>Year<br/>3</b> | <p><b>Units 3.1-3.9</b></p> <p>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p> <p>Use sequence, selections and repetition in programs; work with variables and various forms of input and output.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect errors in algorithms and programs.</p> <p>Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration.</p> | <p><b>Units 3.1-3.9</b></p> <p>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</p> <p>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of pictograms, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p> | <p><b>Units 3.1-3.9</b></p> <p>Use technology safely, respectfully and responsibly; recognize acceptable/unacceptable behaviour; identify a range of ways to report concern about content and contact.</p> |
| <b>Year<br/>4</b> | <p><b>Units 4.1-4.9</b></p> <p>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p> <p>Use sequence, selections and repetition in programs; work with variables and various forms of input and output.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect errors in algorithms and programs.</p> <p>Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration.</p> | <p><b>Units 4.1-4.9</b></p> <p>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</p> <p>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of pictograms, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p> | <p><b>Units 4.1-4.9</b></p> <p>Use technology safely, respectfully and responsibly; recognize acceptable/unacceptable behaviour; identify a range of ways to report concern about content and contact.</p> |