



## Our Lady of Peace Catholic Primary and Nursery School

**'With Christ in our hearts, together we grow.'**

### **Computing at Our Lady of Peace Catholic Primary & Nursery School**

#### **Intent**

We teach the computing curriculum through a specially designed programme, called Purple Mash. Teachers use and adapt Purple Mash to fit the needs of their pupils.

In computing we aim to prepare children for a rapidly changing world and enable them to use computational thinking and creativity to further understand that world. At the core of the curriculum is computer science, in which pupils are taught the principles of coding, how digital systems work, and how to put this knowledge to use through programming. Building on this knowledge and understanding, we intend for our children to use information technology to create programs, systems and a range of content. We aim to ensure that pupils become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.

#### **Implementation**

The computing curriculum leader provides a long-term plan for all year groups, which outlines key skills and knowledge, as well as useful resources and support for teachers. The computing curriculum teaches computing skills in a carefully planned progression - skills being developed in learning blocks, each block building on the previous one. Purple Mash separate the computing curriculum into eight main areas: coding and computational thinking; spreadsheets; internet and email; art and design; music; databases and graphing; writing and presenting; communication and networks. The children are introduced to each of these areas when developmentally appropriate, and the skills are built on, repeated and built again through their time at the school. Though computing is taught discretely, we also seek to use the knowledge across the curriculum through a range of presentation programmes, supporting other areas of learning across the school.

## Topic Map

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2				
EYFS	Integrated into the continuous provision to help support attaining the early learning goals.									
Year 1	[Settle in to going to computer room and how to turn on/log into programmes]	Online safety & Exploring Purple Mash	Pictograms	Grouping & Sorting	Lego Builders	Maze Explorers	Animated Story Books	Coding	Spreadsheets	Tech. Outside School
Year 2	Coding	Online Safety	Questioning	Spreadsheets	Effective Searching	Creating Pictures	Making Music	Presenting ideas	[Consolidation]	
Year 3	Coding	Online Safety	Touch Typing	Spreadsheets	Emails	Branching Databases	Simulations	Graphing	Presenting (With Microsoft PowerPoint)	
Year 4	Coding	Online Safety	Logo	Spreadsheets	Writing for different Audiences	Hardware investigators	Animation	Effective Searching	Making Music	
Year 5	Coding	Online Safety	Game Creator	Spreadsheets	Databases	3D Modelling	Concept Maps		Word Processing (With Microsoft Word)	

Year 6	Coding	Online Safety	Blogging	Spreadsheets (With Microsoft Excel)	Quizzing	Text Adventures	Networks	Understanding Binary
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## Impact

We aim to make children digitally literate and able to join the rest of the world on its digital platform. They will be equipped, not only with the skills and knowledge to use technology effectively and for their own benefit, but more importantly – safely. The biggest impact we want on our children is that they understand the consequences of using the internet and that they are also aware of how to keep themselves safe online. As children become more confident in their abilities in Computing, they will become more independent and key life skills such as problem-solving, logical thinking and self-evaluation become second nature. Proficient users of technology who are able to work both independently and collaboratively.

