

Intent

The Computing curriculum at Pentland Infant and Nursery School seeks to equip pupils with the skills needed to use digital devices, create digital content and stay safe online in the everchanging digital world. At the heart of the curriculum is the development of computing thinking, which encourages problem solving and analytical thinking. Pupils should gain understanding of how digital systems work and understand the basics of computer science including the vocabulary. Through a range of different opportunities, pupils will learn to use technology creatively to author digital content and to understand the principles of how to protect themselves and stay safe when using digital services including the internet.

Implementation

- Pupils are taught the age-related objectives outlined in the computing section of the National Curriculum.
- They are taught the principles of how to stay safe when using digital services as appropriate for their age.
- The computing curriculum is divided into three main areas, which although distinct, remain linked. These areas are Digital Literacy, Information Technology and Computer Science.
- Teachers will make continual assessments during each unit of work and make formal assessments at the end of each unit. This will be used, to inform an end-of-year assessment.

Impact

- If we are successful in implementing our Computing curriculum:
- Pupils will know how to use digital devices respectfully.
 - Pupils will know how to recognise risks online and understand how to seek help.
 - Teachers will provide opportunities for pupils to create a range of digital content including artwork, word-processed documents, spreadsheets, presentations and multi-media documents.
 - Pupils will be able to create a simple computer program based on a given brief using a range of commands, variables and repetition.

In Computing lessons, you will see/hear:

- ICT / Computing equipment used by all children.
- Children talking about previous knowledge
- Children using previously taught knowledge to further their learning in the current lesson
- Lessons will have a clear structure and time for the children to access and use skills being taught
- Children enjoying using the ICT / Computing equipment / apps
- Children have free access to iPad and chrome books



Computing at Pentland 'In a Nutshell'



How do we assess our children?

- Computing is at its early stages of development. Currently computing is assessed formatively during the lesson which feeds into the input of the subsequent lesson addressing any misconceptions.
- To-do's are set for children for different units of work children are expected to save their work for teachers to use during assessments.
- Teachers assess children termly on Target Tracker.

Our priorities to improve Computing are:

- To embed a fully accessible Computing curriculum across the EYFS and KS1.
- To ensure that our ICT / Computing equipment are up to date and in line for the needs of our children. To ensure that our children can access a wide range of equipment to aid in their understanding and progress.
- To imbed computing vocabulary in lessons.
- To ensure all teachers are confident in teaching computing.
- To use ICT in other areas of the curriculum, other than just in ICT lessons e.g. English

What do our pupils say about computing?

- Children are excited to use ICT / Computing equipment
- I like learning to type – Hafsa (Year 1)
- I like playing computing games and puzzles- Zara (Year 1)
- I like computing activities. – M Kara (Year 2)

To excite and engage our pupils we...

- Keen to developing a new ICT / Computing curriculum
- Introducing a wide range of different equipment / programmes and apps to challenge children.
- Allow children to use ICT / Computing equipment in other areas of their learning, not only in ICT / Computing lessons

Non-Negotiables

- Each class will have access to an ICT / Curriculum lesson at least once per week.
- Children will have the opportunity to access ICT / Computing independently