



Intent, Implementation & Impact Report for Computing

Intent

All pupils at Oldfield have the right to have rich, deep learning experiences that balance all the aspects of computing. At Oldfield we teach all three elements of computing: Computer Science, Information Technology and Digital Literacy which we divide into 4 key subject areas; Programming & Algorithms, Data & Information, How Computers Work and Communication & E-safety. At Oldfield Primary School we value the contribution that ICT can make for the benefit of all pupils, staff, parents, governors and the wider community. Our aim is to provide an ICT rich environment which allows pupils to gain the confidence and ability to prepare them for the challenge of a rapidly developing and changing technological world.

We have 3 aims that underpin our vision:

- To develop the **Computing skills** of everyone in school so they are confident, safe and independent.
- To provide **interactive** learning through a range of current technologies.
- To encourage **independent** learning for life.

Implementation

At Oldfield Primary School, we follow the Scholastic Scheme to ensure that all of the children leave Oldfield with the skills they need for the future. Each year group builds on the previous years' skills following the same elements and subject areas. In both KS1 & 2 Computing is taught for an hour each week using a range of devices including interactive whiteboards, laptops, Ipads, Tablets, 3D printer, Bbots and other programmable toys. The curriculum server provides the school with shared files and secure ones which all help pupils practice the skills required for the lesson's objective and to save their work to evidence achievements.

Here at Oldfield we also believe that computing can enhance our learning and teaching and so we use computing in as many subjects as possible. By allowing technology to be used across the curriculum, children can see the benefits of becoming computer literate for the future.

Teachers at Oldfield are encouraged to try a variety of courses on the Microsoft Education Centre and the Computing Co-ordinator gained accreditation as an MIEE Microsoft Innovative Education Expert so that we can all work toward the following aims:

- Use ICT where appropriate to motivate and inspire pupils and raise standards across the curriculum.
- Develop pupil's computing skills, knowledge, understanding and capability through taught Computing lessons and to provide opportunities for pupils to apply and consolidate their learning across the curriculum.
- Encourage learning out of school through Teams and emails and promote links with parents and the wider community.
- Use ICT to support all pupils to ensure they are able to reach their full potential, regardless of gender, disability or ethnicity.
- Make children aware of inappropriate use of ICT and how to use it safely and responsibly.
- Take responsibility as staff for our own continuing professional development
- Ensure our ICT resources are up to date, easily accessible and sustainable.

Impact

Our Computing curriculum is high quality, well thought out and is planned to demonstrate progression. If children are keeping up with the curriculum, they are deemed to be making good or better progress. Our Digital Leaders in Years 4, 5 & 6 run clubs to support children who have no chance to practice their skills at home.

In addition, we measure the impact of our curriculum through the following methods:

- Children can understand and apply the fundamental principles and concepts of computer science as shown by their saved work, the discussions they can have and their enthusiasm to learn more.
- Children can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems

- Children can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- Children are responsible, competent, confident and creative users of information and communication technology.

By the end of their time at Oldfield, children should feel confident in using technology and should be able to keep themselves safe. Children will have a sound knowledge of up to date technology and how it can be used to enhance the curriculum and their learning. Children will ultimately leave Oldfield ready for the future.