



Computing – Statement of Intent

Intent

By the end of their time at Moredon Primary and Nursery School, we want to ensure that our pupils develop the skills needed to be able to access technology as a tool for learning and allow them to adapt to the ever changing technology industry in the future. At our school, we follow the National Curriculum aims through our own developed curriculum that includes Computing and Online Safety (based on Education for a Connected World). In both Computing and Online Safety, our curriculum is broad, balanced and progressive, covering 3 key strands in Computing (Computer Science, Digital Literacy and Information Technology) and 8 topics in Online Safety (including Online Bullying, Health, Well-being and Lifestyle and Managing Online Information.) from Reception to Year 6. At Moredon, our teaching and learning is ambitious so that children are always engaged, challenged and continually building on their previous understanding. To assess learning, pupils complete a concept cartoon at the end of each topic - teachers then use this assessment for learning to inform future teaching, making sure that new learning addresses misconceptions and builds on previously learnt knowledge. Through all these measures, our pupils learn to be responsible, competent, confident and creative users of information and communication technology.

Implementation

We teach the Computing National Curriculum, supported by a clear skills and knowledge progression. This ensures that skills and knowledge are built on year by year and sequenced appropriately to maximise learning for all children. Teachers are aware of this progress and assess against it. Within individual applications or programs, children's last steps are noted so as to have a clear progress from year to year.

We are adamant that resources are not a barrier to the learning of computing with our children. Our whole curriculum is shaped by our school vision which aims to enable all children, regardless of background, ability, additional needs, to flourish to become the very best version of themselves they can possibly be.

To make certain the breadth of skills and understanding, Computing is taught across three main strands: **digital literacy**, **computer science** and **information technology**. As part of **information technology**, children learn to use and express themselves and develop their ideas through ICT for example writing and presenting as well as exploring art and design using multimedia. Within **digital literacy**, children develop practical skills in the safe use of ICT and the ability to apply these skills to solving relevant, worthwhile problems for example understanding safe use of internet, networks and email. In **computer science** we teach children to understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation. Also to analyse problems to computational terms, and have repeated practical experience of writing computer programs in order to solve such problems. We also teach a progression of Computing vocabulary to support children in their understanding. Our classrooms are a resource for children as this vocabulary will be on our learning walls.

At Moredon, we give children access to a wide range of good quality resources and provide cross curricular opportunities for children to apply their Computing knowledge and skills. Online safety is taught within each Computing lesson as a short starter activity as well as being taught as a unit each year. Online safety procedures are communicated with all staff and parents.

Impact

The implementation of this curriculum ensures that when children leave Moredon school, they are competent and safe users of ICT with an understanding of how technology works. They will have a breadth of knowledge relating to online safety, its dangers, and how to best deal with this ever changing area of computing. They will have developed skills to express themselves and be creative in using digital media and be equipped to apply their skills in Computing to different challenges going forward.

Through the explicit teaching of the Computing skills, both the teachers and the pupils assess their learning continuously throughout the lesson. At the end of the unit, pupils use their concept cartoons to reflect on their knowledge and understanding. Our assessment systems enable teachers to make informed judgements about the depth of their learning and the progress they have made over time.