



Our Computing Curriculum

“We need technology in every classroom and in every student and teacher’s hand, because it is the pen and paper of our time, and it is the lens through which we experience much of our world.” *David Warlick*

“Teachers need to integrate technology seamlessly into the curriculum instead of viewing it as an add-on, an afterthought, or an event.” *Heidi-Hayes Jacobs*

Work Together

Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems. Computing also ensures 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.

We believe that incorporating technology into education opens up even more doors to children and broadens their opportunities to enhance learning.

At our schools, we believe that Computing is an integral part of preparing children to live in a world where technology is continuously and rapidly evolving, so much so that children are being prepared to work with technology that doesn’t even exist yet. For this reason, we feel that it is important that children are able to participate in the creation of these new tools to fully grasp the relevance of and the possibilities of emerging technologies thus preparing them for the world that lies ahead.

We want to produce learners who are confident, discerning and effective users of technology and who also have a good understanding of computers, how computer systems work, and how they are designed and programmed.

In addition, we want all children to develop the underlying growth mindset skills which are essential to developing Computing capability (such as problem solving, perseverance and learning from mistakes) and apply them elsewhere.

Children in our school will be taught to evaluate the benefits and risks of technology, its impact on society and how to manage their use of it safely and respectfully.

Grow Together

Computing will be taught through a combination of subject specific lessons and within all other subjects within the classroom where practicable and of immediate value. In this way, children will experience cross-curricular links to widen their knowledge of the capability of computing including the safe use of the Internet and other digital technologies.

Subject leaders will ensure that all classrooms are aware of the possibilities that technology gives through regular updates and staff training opportunities. Teachers

will be updated on new software and understand how best to utilise the tools that they are given. We continually share new ideas with each other and look at how they can be adapted in each class.

We are very lucky in our schools to have the access to the level of technology that we do – every child has access to their own iPad. We encourage children to embrace technology and use it to assist their learning. Children understand that technology is used as a means of supporting their learning and not a distraction or replacement of more traditional approaches to learning. They use it effectively and are confident users.

Technology is used daily to assist our teaching and learning. We use a number of apps and programmes which effectively support children's learning. We use coding programmes such as 'Scratch' and 'hour of code', which have proved to be a huge success with children and they have responded very positively to them.

Computing is taught progressively throughout the school to ensure that experience and skills are developed in a cohesive and consistent way. There is opportunity for children to recognise the value of computing and ICT in their everyday lives and their future working life as active participants in a digital world.

Flourish Together

Our approach towards embracing a growth mindset relates to key principles that are important in many aspects of Computing these are: embracing challenge, persisting in the face of setbacks, learning from mistakes, effort as a path to success, finding inspiration and joy in the success of others. We celebrate learning in Computing against these principles.

Formative teacher assessment of computing capability will be recorded throughout the year, with examples of pupils' work kept to inform judgement on each pupil's level of attainment at the end of each key stage.

Subject leaders will review coverage and approaches to teaching and learning on a bi-annual basis to inform action planning and resultant staff development training.