Computing Curriculum

Crompton Primary School

Rationale

At Crompton Primary School, we believe a high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world. Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems.
The curriculum has been designed to provide our children with the knowledge and skills they will require for current and future learning.
Our bespoke curriculum ensures that we develop our children's love of computing and each year we can build on their knowledge and deepen their understanding.

Subject Intent

The curriculum is split into five sections for each year group: Computer Science, Information Technology, Digital Literacy, Data Handling and Online Safety. All children will learn basic computing skills, such as how to use Microsoft office, programming, creating algorithms and solving problems.

Each year group explores all strands of learning.

	Programming	Multimedia	Handling Data	Online safety
Year 1	**Eat, sleep code, repeat!** Jit5 Turtle Beebot Hour of Code	**Come write with me!** Jit5 Write MS Word Google Docs	**I spy with my little eye!** Cameras iPads jit5 pictograms	**Lee and Kim** Online safety
Year 2	**Eat, sleep code, repeat!** Hour of Code	**Create and Animate!** Jit5 animate PowerPoint Google Slides	**Lines, pies, charts, Oh my!** Jit5 Chart iPads PicCollage	**Hectors World** Online safety

Year 3	**Eat, sleep code, repeat!** Hour of Code	**Sketchers!** Sketches Pro, MS Word, Google Docs	**Bug Hunters** J2e Branch MS Excel iPads	**Captain Cara** Online safety
Year 4	**Eat, sleep code, repeat!** Hour of Code	**Vlogging!** Adobe Spark Video iMovie Screencastify Xbox game bar	**Top Trumps** J2e Data Microsoft word Google docs MS Excel Google sheets	**Net Safe Utah** Online safety
Year 5	**Scratch that Itch!** Hour of Code Scratch	**Augmented Reality** Aurasma Green Screen QR Codes MS Excel	**Let's have a party!** MS Excel Google sheets Google forms Google Sites	**Cyber Café** Online safety
Year 6	**Ahh snakes!** Scratch Hour of Python	**Move to that beat!** Garage Band Sonic Pi	**Get Online** Adoble Spark Page Google Sites	**Caught in the Web / Jigsaw video** Online safety

Implementation

E-Safety is of paramount importance at Crompton Primary School. Throughout the school year children will participate in awareness activities highlighting the importance of e-safety. This is also promoted with parents and carers in different ways.

Staff knowledge is vital at Crompton Primary School therefore we ensure that staff are equipped to teach and deliver up to date content by providing effective CPD and appropriate resources.

Computing is taught for the equivalent of one hour per week, as a minimum. Children will be given opportunities to use a variety of hardware throughout their school journey. The curriculum is supplemented by a variety of software, resources, cross curricular opportunities.

Impact

At Crompton Primary School, we aim to develop computer literate children through cross-curricular opportunities. We will develop children who are capable of safely using the basic every day programmes such as Microsoft office, and who can create websites, use green screens, create stop motion videos and even their own games using different coding programmes.

Throughout the school year, the voice of children, their families and school staff are collected to ensure that the very best curriculum is accessible for all. Each child's progress is regularly monitored, assessed and recorded using our data tracking program.