

Computing

Technology enables us to code, create and connect.

The Elements of Computing

Computational Thinking & Coding

Creating and Communicating

Online Safety

Children Will Learn Component Skills and Knowledge

(Substantive and factual knowledge, topic specific vocabulary and procedural knowledge for Computing)

Computational Thinking Skills

Logical Reasoning
Predicting and analysing

Algorithms

The process for getting things done
Pattern Spotting

Spotting and using similarities

Decomposition

breaking down into parts

Abstraction

Choosing what's important

Debugging

Finding and fixing errors

Evaluating

Making judgements

Presenting Digital Work

Saving and Retrieving

Typing, Touch Gestures and Mouse Skills

Research by searching and selecting
Image—photography, drawing, modelling

Video—capture and edit for audience

Sound Engineering—record and edit for audience

Data Handling—using spreadsheets, tables and graphs

Evaluating and Making Choices

Privacy and Security

Online Bullying, Relationships and Well-Being

Digital Footprint and Reputation

Creative Credit, Copyright and Quality

Composite Knowledge and Skills

(Software and concept specific language and terminology, the Swift programming language)

Everyone Can Code Curriculum

Create and Communicate Curriculum

Online Safety Curriculum

Coding Skills:

Sequencing

Iteration

Event Handling

Conditional Statements

Variables

Children communicate their ideas in digital artefacts, showing their composite knowledge and skills. They answer enquiry questions by publishing using:

Pages for Digital books

Pages/Word for Word processing

Keynote/PowerPoint for Slide show presentations

Numbers/Excel for Spreadsheets

GarageBand for Podcasts

Clips and iMovie for Films

Children show understanding of online safety when they come together to discuss ways to solve problems that may arise in their personal lives.

Online Safety is taught in the first lesson of half term but also through other subject areas, such as PSHE and RSE.

Whole school online safety assemblies are planned by the Computing Leader at the end of each half term.

Because the Computing Curriculum is progressive, what early on is composite knowledge and skills could become a component part of more complex learning later on.