

KS2 UPPER COMPUTING CURRICULUM OVERVIEW FOR PARENTS



Computing in Upper Key Stage 2 prepares children to be confident digital citizens, creative thinkers, and responsible users of technology. They learn how to code, analyse data, and use technology purposefully to design, communicate, and present ideas.

Children should:

- Design, write, and debug more complex programs using sequence, selection, and variables.
- Combine multiple forms of media for a clear purpose and audience.
- Understand how information travels across networks and the internet.
- Use search technologies efficiently and evaluate online content.
- Continue to develop safe, responsible online behaviour.



COMPUTER SCIENCE

Children will:

- Create programs with variables, repetition, and conditional statements.
- Debug and refine code to achieve specific goals.
- Understand how computer networks and the internet function.
- Explore how systems communicate and store information.

These skills help children think computationally and solve complex problems.



INFORMATION TECHNOLOGY

Children will:

- Use a range of software to create, analyse, and present digital work.
- Collect and interpret data using spreadsheets and graphs.
- Create and edit videos, podcasts, or digital art to convey messages.
- Evaluate the effectiveness of digital tools for different purposes.

This helps them use technology creatively and productively.



DIGITAL LITERACY

Children will:

- Learn to use the internet responsibly, understanding bias and reliability.
- Protect their identity and privacy online.
- Recognise the impact of technology on wellbeing and relationships.
- Support others in making positive and safe online choices.

They understand that digital citizenship involves respect, responsibility, and awareness.



Computing helps children:

- Be safe, informed, and confident digital citizens.
- Solve problems through logic and creativity.
- Communicate ideas using modern technology.
- Understand the changing digital world around them.

COMPUTING

KS2U How can I help my child at home?

Open conversations about technology help your child use it safely, responsibly, and confidently.

Encourage coding and problem-solving
– explore free websites like Scratch, Hour of Code, or code.org.



Involve them in data and organisation – let them make charts, lists or presentations for fun.

Discuss online safety regularly
– talk about privacy, sharing, and kindness online. Talk about digital footprints – discuss how what we share online lasts.



Explore digital creativity – try photo editing, video making, or digital art together.



Balance tech use – agree limits and encourage other interests too.

