



WEST BOROUGH PRIMARY SCHOOL

Computing

INTENT

At West Borough Primary School, our Computing curriculum aims to equip pupils with the knowledge, skills and understanding they need to participate safely, confidently and effectively in an increasingly digital world. We believe that computing is an essential part of modern life and that all children should have opportunities to develop computational thinking, creativity and problem-solving skills through meaningful and engaging learning experiences.

We want children to become confident digital citizens who can use technology purposefully, responsibly and safely. Pupils learn how digital systems work, how to create and debug programs, how to collect and interpret data and how to communicate effectively through a range of digital media. Alongside these technical skills, children develop a secure understanding of online safety.

Our curriculum is designed to progressively develop both substantive computing knowledge and disciplinary computing skills from EYFS to Year 6. We aim for all children to know more, remember more and do more as they progress through the school.

IMPLEMENTATION

Computing is taught through the Kapow Primary Computing scheme and is fully aligned with the National Curriculum. Learning is carefully sequenced to develop pupils' understanding across the key areas of computer systems and networks, programming, creating media, data handling and online safety.

Pupils develop their knowledge and skills through practical, hands-on experiences using a range of hardware, software and digital technologies. Programming is taught progressively through activities including Bee-Bots, Scratch, MakeCode, BBC Micro:bit and Python. Children also learn to create digital content through animation, websites, podcasts and multimedia projects whilst developing an understanding of data.

Online safety is embedded throughout the curriculum and explicitly taught each term through the West Borough Online Safety Curriculum. Themes including privacy, online relationships, cyberbullying, misinformation, digital wellbeing and responsible use of technology are revisited regularly.

Teachers explicitly teach key knowledge and vocabulary and provide opportunities for retrieval practice and revisiting prior learning. Oracy is developed through collaborative problem solving, discussion, debugging activities and opportunities for pupils to explain their thinking, evaluate digital solutions and communicate using increasingly sophisticated computing vocabulary. Learning is adapted to ensure all pupils, including those with SEND and disadvantaged pupils, can access and succeed within the curriculum.

Curriculum Overview

Year Group	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Reception	Using a Computer	All About Instructions	Exploring Hardware	Programming Bee-Bots	Introduction to Data	Continuous Provision
Year 1	Using Computers	Commands Unplugged	Digital Designers	Bee-Bots	Digital Designers 2	Introduction to Data
Year 2	Using Computers 2	Algorithms & Debugging	The Internet	MakeCode	Digital Designers 3	Online Privacy
Year 3	Scratch	Connecting Devices	MakeCode Loops	Video Trailers	Website	Branching Databases
Year 4	Further Scratch	Connecting Networks	Computational Thinking	Information Sharing	Digital Images	Be Kind Online
Year 5	Programming Music	Websites/Search	BBC Micro:bit	Animations	Podcasts	Spreadsheets
Year 6	Pixels & Positions	Hardware/Security	Python	Machine Learning	Multimedia Project	Life Online

Online Safety Overview

Term	Whole-School Focus
Term 1	Ready, Respectful & Safe Online
Term 2	My Information Belongs to Me
Term 3	Who Are You Talking To?
Term 4	Kindness Behind the Screen
Term 5	Can I Trust What I See?
Term 6	Taking Control of My Digital Life

IMPACT

By the time pupils leave West Borough Primary School, they have developed a secure understanding of key computing concepts and can apply their knowledge confidently across a range of digital contexts. Pupils demonstrate increasing competence in programming,

creating digital content, understanding computer systems and working with data. They use technology purposefully and creatively to solve problems, communicate ideas and present information.

Children use subject-specific vocabulary accurately and can explain how digital systems work, how programs are designed and improved and how technology impacts everyday life. Pupils also develop as responsible digital citizens who understand how to stay safe online and make informed decisions when using technology.

The impact of the curriculum is evidenced through pupil voice, assessment outcomes, digital projects, lesson visits, work scrutiny and subject leadership monitoring.