Whole School

Computing Curriculum

Whole-school definition of computing

Computing prepares you to become an active participant in a digital world: to use creative thinking and technology to understand and change the world around you.

Big Ideas of Computing

Curriculum Themes

'Big Ideas' of Computing

The Big Ideas of Computing are based on a spiral curriculum (so each of the themes is revisited at least once in each year group).

Pupils revisit each theme through a new unit that consolidates and builds on prior learning within that theme.

Each unit that is taught will link to a Big Idea.

The 'Big Ideas' focus on the 4 Primary Themes:

Computer Systems and Networks, Programming, Data and Information and Creating Media

EYFS

EYFS Overview	
Block 1	Computing systems and networks: Technology around us
Block 2	Creating media: Digital painting
Block 3	Programming: Moving a Beebot (introduction)
Block 4	Data and information: Grouping data
Block 5	Creating media: Photography and digital writing
Block 6	Programming: Programming Beebots

	Year 1 Overview	
Block 1	Computing systems and networks: Technology around us	
Block 2	Creating media: Digital painting	
Block 3	Programming: Moving a robot	
Block 4	Data and information: Grouping data	
Block 5	Creating media: Digital writing	
Block 6	Programming: Programming animations	

	Year 2 Overview	
Block 1	Computing systems and networks: Information technology around us	
Block 2	Creating media: Digital photography	
Block 3	Programming: Robot algorithms	
Block 4	Data and information: Pictograms	
Block 5	Creating media: Digital music	
Block 6	Programming: Programming quizzes	

	Year 3 Overview	
Block 1	Computing systems and networks: Connecting computers	
Block 2	Creating media: Stop-frame animation	
Block 3	Programming: Sequencing sounds	
Block 4	Data and information: Branching databases	
Block 5	Creating media: Desktop publishing	
Block 6	Programming: Events and actions in programs	

	Year 4 Overview	
Block 1	Computing systems and networks: The internet	
Block 2	Creating media: Audio production	
Block 3	Programming: Repetition in shapes	
Block 4	Data and information: Data logging	
Block 5	Creating media: Photo editing	
Block 6	Programming: Repetition and games	

	Year 5 Overview	
Block 1	Computing systems and networks: Systems and searching	
Block 2	Creating media: Video production	
Block 3	Programming: Selection in physical computing	
Block 4	Data and information: Flat-file databases	
Block 5	Creating media: Introduction to vector graphics	
Block 6	Programming: Selection in quizzes	

	Year 6 Overview	
Block 1	Computing systems and networks: Communication and collaboration	
Block 2	Creating media: Webpage creation	
Block 3	Programming: Variables in games	
Block 4	Data and information: Introduction to spreadsheets	
Block 5	Creating media: 3D modelling	
Block 6	Programming: Sensing movement	