



Computing

KS1 2022-2023

Unit of work structure



Raspberry Pi

## Teach Computing Curriculum overview

### Brief overview

	Computing systems and networks <sup>1</sup>	Creating media	Programming A	Data and information	Creating media	Programming B
Year 1	Technology around us (1.1)*	Digital painting (1.2)	Moving a robot (1.3)	Grouping data (1.4)	Digital writing (1.5)	Programming animations (1.6)
Year 2	Information technology around us (2.1)	Digital photography (2.2)	Robot algorithms (2.3)	Pictograms (2.4)	Digital music (2.5)	Programming quizzes (2.6)

<sup>1</sup> Networks are not part of the key stage 1 across national curriculum for computing but the title is used as a stage strand a 'quick code' unit reference in for each unit, e.g. 1.3 refers to the third Year 1 unit in the recommended teaching order.

## Unit summaries

	Computing systems and networks	Creating media	Programming A	Data and information	Creating media	Programming B
Year 1	<b>Technology around us</b> Recognising technology in school and using it responsibly.	<b>Digital painting</b> Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally.	<b>Moving a robot</b> Writing short algorithms and programs for floor robots, and predicting program outcomes.	<b>Grouping data</b> Exploring object labels, then using them to sort and group objects by properties.	<b>Digital writing</b> Using a computer to create and format text, before comparing to writing non-digitally.	<b>Programming animations</b> Designing and programming the movement of a character on screen to tell stories.

National Curriculum Coverage — Years 1 and 2	
1.1	Technologyaroundus
1.2	Digitalpainting
1.3	a robot
1.4	Groupingdata
1.5	Digitalwriting
1.6	Programminganimations
2.1	Informationtechnologyaroundus
2.2	Digitalphotography
2.3	algorithms
2.4	Pictograms
2.5	Digitalmusic
2.6	Programmingquizzes

Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions			✓			✓			✓			✓
Create and debug simple programs			✓			✓			✓			✓
Use logical reasoning to predict the behaviour of simple programs			✓			✓			✓			✓
Use technology purposefully to create, organise, store, manipulate, and retrieve digital content	✓	✓		✓	✓		✓	✓		✓	✓	✓
Recognise common uses of information technology beyond school	✓		✓				✓	✓				
Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies	✓			✓	✓		✓	✓	✓	✓		