KS1 Computing
Curriculum Overview

	Computing systems and networks	Creating media	Programming A	Data and Information	Creating media	Programming B
Year 1	**Technology around us** Recognising technology in school and using it responsibly	**Digital painting** Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally	**Moving a robot** Writing short algorithms and programs for floor robots, and predicting program outcomes	**Grouping data** Exploring object labels, then using them to sort and group objects by properties	**Digital writing** Using a computer to format text, before comparing to writing non-digitally	**Programming animations** Designing and programming the movement of a character on screen to tell stories
Year 2	**Information technology around us** Identifying IT and how it's responsible use improves our world in school and beyond	**Digital photography** Capturing and changing digital photographs for different purposes	**Robot algorithms** Creating and debugging programs, and using logical reasoning to make predictions	**Pictograms** Collecting data in tally charts and using attributes to organise and present data on a computer	**Digital music** Using a computer as a tool to explore rhythms and melodies, before creating a musical composition	**Programming quizzes** Designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz

National Curriculum coverage – Years 1-2	1.1 Technology around us	1.2 Digital painting	1.3 Moving a robot	1.4 Grouping data	1.5 Digital writing	1.6 Programming animations	2.1 Information technology around us	2.2 Digital photography	2.3 Robot algorithms	2.4 Pictograms	2.5 Digital music	2.6 Programming quizzes
Understand what algorithms are, how they are implemented as programs on digital devices, and the programs execute by following precise and unambiguous instructions			✓			✓			✓			✓
Create and debug simple programs			✓			✓			✓			✓
Use logical reasoning purposefully to create, organise, store, manipulate, and retrieve digital content			✓			✓			✓			✓
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	✓			✓	✓		✓	✓	✓	✓		