Curriculum Intent and Breadth- Computing

Brook Primary School

Computing Intent

At Brook, our computing program will equip pupils to use computational thinking, creativity and knowledge of computer systems to ensure they are digitally literate and are able to express themselves and develop their ideas through information and communication technology.

Purpose of study A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world. Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems. The core of computing is computer science, in which pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content. Computing also ensures that pupils become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.

	Autumn Term 1 Skills	Autumn Term 2 Project	Spring Term 1 Skills	Spring Term 2 Project	Summer Term 1 Skills	Summer Term 2 Project
Year 1	Bee Bots writing list of instructions (algorithm) Practically using them with a Bee Bot	Purple Mash Unit 1.7 Coding	Searching online safely	Computer aided design Purple Mash 2Paint 2Sketch 2Paint a picture	What do you want to type? Purple Mash 2Type	Create an eBook Purple Mash 2Create a story
Year 2	Algorithms - using ordered instructions and directional language – as well as debugging a set of instructions	Unit 2.1 Coding	Send and receive an email (could be linked to letter writing) purple mash project? Purple Mash 2Email	Create an Online safety video Capture video. iPad iMovie	Collect data Purple Mash 2Investigate 2Graph 2Question	Mini beast investigation Key Skills Presentation (2Connect) Getting out and about while investigating Purple Mash 2Connect

Year 3	iMovie - make an iMovie with transitions/ titles/ text and ordered clips	Coding Purple Mash Unit 3.1	Internet research	Class/school survey Purple Mash 2Connect 2Investigate 2Graph 2Question	2 Type / Type up a story piece of work / hot write directly PowerPoint Presentation	Send and receive an email (could be linked to letter writing) purple mash project? Purple Mash 2Email Online safety Henry's winning email 2Respond
Year 4	Music Makers Create a piece on garage band with multiple layers of sound	Coding Purple Mash unit 4.1	Word processing File organisation / Blogging Purple Mash 2Blog	Create and edit music Purple Mash 2Sequence Sound drag 2Explore	Send and receive an email (could be linked to letter writing) purple mash project? Purple Mash 2Email Online safety 2Respond	Wikipedia investigation (writing project) Write their own Wiki page collaboratively Purple Mash 2Write Google classroom
Year 5	Word processing - chn to use Open / new, load, save, Font ,Bold, insert and other skills in a piece of work	Coding Purple Mash unit 5.1	Office 365 Usage Cloud Computing	Investigate how search engines work online Good vs Bad surfing Google Classroom debate Purple Mash Writing projects - How we search Internet Research	Word processing skills / file organisation	Write a blog (link to English) Purple Mash - 2Blog Blogging
Year 6	**Stop motion Animation iPads**	Coding Purple Mash Unit 6.1	One drive vs Google classroom Cloud Computing	Group Holiday project / plan a trip or visit Internet	Online safety movie? Green screen movie Video (iMovie)	Questionnaire + survey Link to enterprise Google sheets / charts Graphs Data Purple Mash 2Connect 2Investigate 2Graph 2Question