



Celebrating learning together in faith, hope and love

COMPUTING CURRICULUM PROGRESSION

Curriculum Intent

Computing is an essential part of the curriculum, both as a stand-alone subject and as an integral part of all learning. Computers and technology are, in general, a significant part of everyone’s daily life and children need to be equipped to take part in a rapidly changing world. Computing skills are a major factor in enabling children to be confident, creative and independent learners and it is our intention that children have every opportunity available to allow them to achieve this. They should be taught to find, explore, analyse and present information and when they leave school they should be computer literate.

Computing

Purpose: 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. (National Curriculum 2014)

EYFS

Purple Mash programs and activities:

Associated hardware:

Listening and Attention

- Simple City, Slideshows, 2Create a story, Mashcams, Talking Stories

- microphone, laptop, tablet, digital camera, IWB

Speaking

- Mashcams, 2CreateaStory, Slideshows, Simple City

- microphone, camera, IWB

Understanding

- 2Go, Simple City, 2CreatStory, Slideshow Creator

- microphone, laptop, tablet, Beebot

Making Relationships

- 2Beat, 2Explore, Mashcams, Topic resources PINS – All About Me and Feelings

- microphone, musical keyboard, stereo / cds, headphones

Key skills:

- log in independently, turn taking, mouse and trackpad skills, drag and drop, painting and drawing tools

Self-confidence and awareness

- Explore new environments in Mini-Mash, Painting and drawing tools, Talk about observations and experiences, Develop ‘buddies’ to support one another

- IWB, laptop / PC, tablet, stylus / digital pen

Health and self-care

- Mini Mash PIN – Grocers, 2Count, Outdoor area of Mini Mash discussion and reflection

- timers, laptop, tablet, camera / video recorder

Reading

- Mashcams, 2CreateaStory, Alphabet slideshows, 2Email / 2Respond, Talking Stories

- IWB, laptop / PC, tablet, camera / video recorder, microphone



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Writing													
<ul style="list-style-type: none"> Mashcams, 2Connect – concept mapping, 2CreateaStory, 2Publish, 2Email / 2Respond 						<ul style="list-style-type: none"> laptop / PC, IWB, tablet, camera / video recorder 							
Numbers													
<ul style="list-style-type: none"> Maths City 1, A-fish-metic, Number paint projects, 2Count, 2Quiz 						<ul style="list-style-type: none"> IWB, laptop / PC, tablet, stylus / digital pen 							
Shape, Space and Measure													
<ul style="list-style-type: none"> Maths City 1, Maths City 2, Shapes PIN in Mini Mash, 2DIY, 2DesignandMake 						<ul style="list-style-type: none"> IWB, laptop / PC, tablet, stylus / digital pen 							
People and Communities													
<ul style="list-style-type: none"> Mini Mash PINS – All About Me, Feelings 						<ul style="list-style-type: none"> IWB, laptop / PC, tablet 							
The World													
<ul style="list-style-type: none"> Mini Mash PINS – Minibeasts, Garden, Growing, Seasons, Baby Animals, SimpleCity, Slideshow creator, 2Connect 						<ul style="list-style-type: none"> IWB, laptop / PC, tablet, stylus / digital pen 							
Technology													
<ul style="list-style-type: none"> Simple City, Access to Purple Mash and Mini Mash 						<ul style="list-style-type: none"> IWB, laptop / PC, tablet, stylus / digital pen 							
Exploring and Understanding Media													
<ul style="list-style-type: none"> 2Beat, 2Explore, 2DesignandMake, 2PaintaPicture, Paint projects 						<ul style="list-style-type: none"> IWB, laptop / PC, tablet, stylus / digital pen, camera / video recorder 							
Being Imaginative													
<ul style="list-style-type: none"> 2PaintaPicture, 2PaintaProject, 2CreateaStory, Mashcams, 2Beat, 2Explore, 2DesignandMake 						<ul style="list-style-type: none"> IWB, laptop / PC, tablet, stylus / digital pen, camera / video recorder, musical keyboard, headphones, stereo 							
Directed teaching and continuous provision													
Online safety													
Ourselves and Our Families	Repeating Rhythms and Patterns	Traditional tales	Monsters and Aliens	Space	Christmas	Winter, Snow, Ice and Dark Nights	Chinese New Year and Dragons	Food	People Who Help Us	Superheroes	Life Cycles	On the Farm	Dinosaurs
<ul style="list-style-type: none"> Look at photos Print photos Take photos of self and others PIN – All About Me, Feelings 	<ul style="list-style-type: none"> Take photos of objects Delete and edit photos by adding clip art Make and record music – 2Beat/2Explore 	<ul style="list-style-type: none"> Record seasonal changes with camera and video recorder Listen to audio stories 2Connect – mapping stories 	<ul style="list-style-type: none"> Program Beebot to follow a route Going places safely 	<ul style="list-style-type: none"> Mashcams - astronaut Use search engine safely – Kiddle Paint space pictures using finger and stylus / digital pen 	<ul style="list-style-type: none"> Design a route for a Beebot Make and record music – 2Beat, 2Explore Use stereo to listen to music on CD 	<ul style="list-style-type: none"> Personal passwords and usernames Record singing with microphone MINI Mash PIN - Seasons 	<ul style="list-style-type: none"> Make and record music and performances 2PaintaPicture 2PaintaProject Sharing creative work 	<ul style="list-style-type: none"> Record instructions using microphone Use PC / laptop to watch videos MiniMash PIN - Grocers 	<ul style="list-style-type: none"> Sending messages to people who help us – 2email/2Respond Interact in video communication with people who help us 	<ul style="list-style-type: none"> Mashcams – superhero Publish a superhero story - 2CreateaStory 	<ul style="list-style-type: none"> Record changes in nature using camera and video recorder Mini Mash PINS – Garden, Minibeasts 	<ul style="list-style-type: none"> Record key events – reip to farm using camera and video recorder Mini Mash PINS – Baby Animal, Seasons 	<ul style="list-style-type: none"> Publish a dinosaur story - 2CreateaStory Use a camera and video recorder to gather evidence



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Key Stage 1

Theme Key:	
	Coding and Computational thinking
	Spreadsheets
	Internet and Email
	Art and Design
	Music
	Databases and graphing
	Writing and Presenting
	Communication and networks

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
YEAR 1	Unit 1.1 Online Safety & Exploring Purple Mash				Unit 1.2 Grouping & Sorting		Unit 1.3 Pictograms		Unit 1.4 Lego Builders		Unit 1.5 Maze Explorers		Unit 1.6 Animated Story Books			Unit 1.7 Coding			Unit 1.8 Spreadsheets		Unit 1.9 Technology outside school										
	Weeks – 4				Weeks – 2		Weeks – 3		Weeks – 3		Weeks – 3		Weeks – 5			Weeks – 6			Weeks – 3		Weeks – 2										
	Programs – Various				Programs – 2DIY		Programs – 2Count		Programs – 2DIY		Programs – 2Go		Programs – 2Create A Story			Programs – 2Code			Programs – 2Calculate		Programs – Various										

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
YEAR 2	Unit 2.1 Coding					Unit 2.2 Online Safety			Unit 2.3 Spreadsheets				Unit 2.4 Questioning			Unit 2.5 Effective Searching		Unit 2.6 Creating Pictures			Unit 2.7 Making Music		Unit 2.8 Presenting Ideas									
	Weeks – 5					Weeks – 3			Weeks – 4				Weeks – 5			Weeks – 3		Weeks – 5			Weeks – 3		Weeks – 4									
	Programs – 2Code					Programs – Various			Programs – 2Calculate				Programs – 2Question, 2Investigate			Programs – Browser		Programs – 2PaintAPicture			Programs – 2Sequence		Programs – Various									



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Key Stage 2

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
YEAR 3	Unit 3.1 Coding						Unit 3.2 Online safety			Unit 3.3 Spreadsheets			Unit 3.4 Touch Typing			Unit 3.5 Email (including email safety)				Unit 3.6 Branching Databases		Unit 3.7 Simulations		Unit 3.8 Graphing									
	Number of Weeks – 6						Weeks – 3			Weeks – 3			Weeks – 4			Weeks – 6				Weeks – 4		Weeks – 3		Weeks – 3									
Main Programs – 2Code						Programs – Various			Programs – 2Calculate			Programs – 2Type			Programs – 2Email, 2Connect, 2DIY				Programs – 2Question		Programs – 2Simulate, 2Publish		Programs – 2Graph										
Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
YEAR 4	Unit 4.1 Coding						Unit 4.2 Online safety				Unit 4.3 Spreadsheets				Unit 4.4 Writing for different audiences			Unit 4.5 Logo		Unit 4.6 Animation		Unit 4.7 Effective Search		Unit 4.8 Hardware Investigators									
	Number of Weeks – 6						Weeks – 4				Weeks – 6				Weeks – 5			Weeks – 4		Weeks – 3		Weeks – 3		Weeks – 2									
Main Programs – 2Code						Programs – Various				Programs – 2Calculate				Programs – 2Email, 2Connect, 2DIY			Programs – Logo		Programs – 2Animate		Programs – Browser												
Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
YEAR 5	Unit 5.1 Coding						Unit 5.2 Online safety			Unit 5.3 Spreadsheets				Unit 5.4 Databases		Unit 5.5 Game Creator			Unit 5.6 3D Modelling		Unit 5.7 Concept Maps												
	Number of Weeks – 6						Weeks – 3			Weeks – 6				Weeks – 4		Weeks – 5			Weeks – 4		Weeks – 4												
Main Programs – 2Code						Programs - Various			Programs – 2Calculate				Programs – 2Question, 2Investigate		Programs – 2DIY 3D			Programs – 2Design and Make		Programs – 2Connect													



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Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
YEAR 6*	Unit 6.1 Coding						Unit 6.2 Online safety			Unit 6.3 Spreadsheets					Unit 6.4 Blogging				Unit 6.5 Text Adventures			Unit 6.6 Networks		Unit 6.7 Quizzing								
	Number of Weeks – 6						Weeks – 2			Weeks – 5					Weeks – 5				Weeks – 5			Weeks – 3		Weeks – 6								
Main Programs – 2Code						Programs - Various			Programs – 2Calculate					Programs – 2Blog				Programs – 2Code, 2Connect					Programs – 2Quiz, 2DIY, Text Toolkit, 2Investigate									