



Purley Church of England Primary School Computing Scheme of Work



Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Y1/2 Cycle A Badger	Take Aways Communications/ networks/internet and email Online Safety- Purple Mash unit 1.1(3wks) Effective internet searching - Purple Mash unit 2.5(4wks)	What's that light? Coding and computational thinking Lego Builders- Purple Mash unit 1.4(3wks)	Shall we call the doctor? Communications & networks Technology outside school- Purple Mash unit 1.9((2wks) Grouping and sorting – Purple Mash unit 1.2 (2 wks)	Can we keep a dinosaur? Computerised art and design/spreadsheets Creating pictures – Purple Mash unit 2.6(5 wks) Spreadsheets- Purple Mash unit 1.8(3 wks)	How does your garden grow? Coding and computational thinking Coding – Purple Mash unit 1.7 (6wks)	Do I have paws or claws? Coding and computational thinking Coding – Purple Mash unit 2.1(5wks)
Y1/2 Cycle B Badger	Ship Ahoy! Communications & networks/ Coding and computational thinking Online Safety- Purple Mash unit 1.1(3wks) Maze explorers – Purple Mash unit1.5(3wks)	Shall we have a party? Databases and graphing Questioning – Purple Mash unit 2.4	Up in the air Internet and email/ Computerised art and design Online safety- Purple mash unit 2.2 (3wks) Animated Story books- Purple Mash unit 1.6(5 wks)	What's in the box? Digital Music/Spreadsheets Making music- Purple mash unit 2.7(3wks) Spreadsheets – Purple mash unit 2.3(4wks)	Please Miss? Databases and graphing Pictograms- Purple Mash unit 1.3 (wks 3)	Enchanted woodland Writing and Presenting Presenting ideas -Purple Mash unit 2.8(4wks)
Y3/4 Cycle A Owl	Sticks and stones Coding and computational thinking Coding – see break down below for lessons covered. Scratch will also be used	What's peeking out of the Earth? Internet and email/Spreadsheets Online safety- Purple Mash unit 3.2(3wks) Spreadsheets – Purple Mash unit 3.3(3wks)	Walk like an Egyptian Writing and Presenting Touch Typing – Purple Mash unit 3.4 (4wks)	Our faithful world Internet and email Email including email safety – Purple Mash unit 3.5 (6 wks)	Rafting down the river Databases and graphing Branching databases- Purple Mash unit 3.6(4wks)	Which direction? Communications and networks/Databases and graphing Simulations- Purple Mash unit 3.7(3wks) Graphing – Purple Mash unit 3.8
Y3/4 Cycle B Owl	Twit – Twhoo Coding and computational thinking Coding – see break down below for lessons covered. Scratch will also be used	Bake a better biscuit Spreadsheets Spreadsheets – Purple Mash unit 4.3 (6wks)	Romans on the rampage Internet and email Online safety- Purple Mash unit 4.2(4wks)	Will's wonderful words/Who's hiding Behind The Willows? Coding and computational thinking/ Computerised art and design. Logo -Purple mash unit 4.5 (4wks) Animation - Purple Mash unit 4.6(3wks)	Cool Composers Digital music Making Music – Purple Mash unit 4.9(4wks)	Ocean commotion Internet and email/Communication and networks Effective Search – Purple mash unit 4.7 (3wks) Hardware Investigators – Purple Mash unit 4.8 (2wks)



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Y5/6 Cycle A Woodpecker	Invaders! Coding and computational thinking Coding – Purple Mash unit 5.1 (6wks)	Mayan Mayhem Internet and email/ Spreadsheets Online safety- Purple Mash unit 5.2 (3wks) Spreadsheets – Purple Mash unit 5.3 (5wks)	Mystical me! Databases and Graphing Databases- purple Mash unit 5.4(4wks)	Dambusters Computerised art and design. Game creator – Purple Mash unit 5.5 (5wks)	Dambusters Computerised art and design. 3D Modelling - Purple Mash unit 5.6 (4wks)	Tardis! Writing and Presenting Concept maps – Purple Mash unit 5.7 (4wks)
Y5/6 Cycle B Woodpecker	Extreme Earth Coding and computational thinking Coding – Purple Mash unit 6.1 (6wks)	My space Internet and email/ Spreadsheets Online safety- Purple Mash unit 6.2 (3wks) Spreadsheets – Purple Mash unit 6.3 (5wks)	Starship Enterprise Writing and Presenting Blogging- Purple Mash unit 6.4(5wks)	Chim Chim Cheree Coding and computational thinking Text Adventures- Purple Mash unit 6.5 (5Wks)	Making waves Communication and networks Networks- Purple Mash unit 6.6 (3wks)	Ready, set, go! Writing and Presenting Quizzing- Purple Mash unit 6.7 (6wks)

Coding Breakdown

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Year 3 /4 Cycle A Owl	Review previous coding – Year 3, Lesson 1	Simulating a physical system – Year 3, Lesson 2	Making a timer – Year 4, Lesson 4	Debugging – Year 3, Lesson 6	Making a control simulation – Year 4, Lesson 5	Decomposition and Abstraction – Year 4, Lesson 6
Year 3 /4 Cycle B Owl	Review previous coding, Y4, lesson 1	Introducing 'if' statements – Year 3, Lesson 3	'if/else' statements – Year 4, Lesson 2	Repetition – Year 3, Lesson 5	Repeat until - Year 4, Lesson 3	Variables – Year 3, Lesson
Year 5/6 Cycle A Woodpecker	Review Previous coding – Year 5 Lesson 1	Simulating a physical system – Year 5 Lesson 2	Creating a game with a score and timer – Year 5 Lessons 4 and 5	The Launch Command – Year 5 Lesson 6	Using User Input – Year 6, Lesson 4	Extension/consolidation/Assessment of learning
Year 5/6 Cycle B Woodpecker	Designing and writing a more complex program – Year 6 Lessons 1 and 2	Introducing text variables – Year 5 Lesson 3	Introducing Functions – Year 6 Lesson 3	Flowcharts and control simulations – Year 6, Lesson 5	Text Adventure – Year 6 Lesson	Extension/consolidation/Assessment of learning

KS2 enhancement learning

In addition to the coding lessons detailed above, pupils will also have access to Scratch.

Throughout their learning children will use and develop their skills in the following Google docs/sheets/slides/forms. Adobe Spark/ Stop motion animation/google maps and google earth.

Both KS2 classes will be involved in our JDO global communication project with weekly communication with partner children in USA and monthly google meets and collaborative learning tasks.



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