

Richard Durning's Long Term Plan Using Purple Mash and NOS safety plans

Academic 2023 – 24

Purplemash

Year 1 & 2 Cycle A

Year 3 & 4 Cycle A

Year 5 & 6 Cycle A

NOS E-safety – Cycle A

EYFS- units repeated yearly

Year 1 and 2 – Year 1 units

Year 3 and 4 – Year 3 units

Year 4 and 5 – Year 5 units

Academic Year 2022- 23

Purplemash

Year 1 & 2 Cycle B

Year 3 & 4 Cycle B

Year 5 & 6 Cycle B

NOS E-safety – Cycle B

EYFS- units repeated yearly

Year 1 and 2 – Year 2 units

Year 3 and 4 – Year 4 units

Year 5 and 6 – Year 6 units

Reception Yearly	<i>Early Learning Goal: Understanding of the world - Technology</i>		
	<i>Autumn Term</i>	<i>Spring Term</i>	<i>Summer Term</i>
<p>ELG - Technology</p> <p><i>Children recognise that a range of technology is used in places such as homes and schools.</i></p> <p><i>They select a range of technology for particular purposes.</i></p>	<p><i>E - safety – Digi ducks (childnet resource)</i></p> <p><i>Find out about basic use of technology in the home and school.</i></p> <p><i>MiniMash in Purplemash - lots of topic links, practical learning and mouse control skills..</i></p> <p><i>Opportunities for the children to explore a range of technological toys.</i></p> <p><i>Use of technology in the wider world -Use simple city on Minimash in Purplemash</i> <i>Reading Eggs</i></p>	<p><i>E-safety – Smarty Penguin (childnet resource)</i></p> <p><i>Beebot activities, development of directional language. Debugging when things go wrong.</i></p> <p><i>Basic keyboard skills on the computer i.e. learning letters and location.</i></p> <p><i>MiniMash in Purplemash - lots of topic links, practical learning and mouse control skills.</i></p> <p><i>Use of technology in the wider world -Use simple city on Minimash in Purplemash</i></p>	<p><i>E-safety – Buddy the dog (Twinkl resource)</i></p> <p><i>Continue to build on the basic keyboard skills already taught in Spring term on the computer leading up to typing their own name.</i></p> <p><i>MiniMash in Purplemash - lots of topic links, practical learning and mouse control skills.</i></p> <p><i>Use of technology in the wider world -Use simple city on Minimash in Purplemash</i></p>

Year 1 & 2 Cycle A

Year 1\2 - Cycle A

Predominant Area of Computing*		
Computer Science	Information Technology	Digital Literacy

*Most units will include aspects of all strands.

<p>Unit 1.1 Online Safety & Exploring Purple Mash</p> <p>Number of lessons – 4</p> <p>Programs – Various</p>	<p>Unit 2.5 Effective Searching</p> <p>Number of lessons – 3</p> <p>Programs – Browser</p>	<p>Unit 1.4 Lego Builders</p> <p>Number of lessons – 3</p> <p>Programs – 2DIY</p>
<p>Unit 1.9 Technology outside school</p> <p>Number of lessons – 2</p> <p>Programs – Various</p>	<p>Unit 1.2 Grouping & Sorting</p> <p>Number of lessons – 2</p> <p>Programs – 2DIY</p>	<p>Unit 2.6 Creating Pictures</p> <p>Number of lessons – 5</p> <p>Programs – 2PaintAPicture</p>
<p>Unit 1.8 Spreadsheets</p> <p>Number of lessons – 3</p> <p>Programs – 2Calculate</p>	<p>Unit 1.7 Coding</p> <p>Number of lessons – 6</p> <p>Programs – 2Code</p>	<p>Unit 2.1 Coding</p> <p>Number of lessons – 5</p> <p>Programs – 2Code</p>

Including NOS (National Online Safety) units:

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| <ul style="list-style-type: none"> • Self Image and Identity • Managing online information • Health, wellbeing and lifestyle • Privacy and security • Online Reputation | <ul style="list-style-type: none"> Online Bullying Copyright and ownership Online Relationships |
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Year 1 & 2 Cycle B

Purple Mash Computing Scheme of Work – Adapting and refining the scheme

Year 1\2 – Cycle B

Predominant Area of Computing*		
	Computer Science	
	Information Technology	Digital Literacy

*Most units will include aspects of all strands.

<p>Unit 1.1 Online Safety & Exploring Purple Mash</p> <p>Number of lessons – 4</p> <p>Programs – Various</p>	<p>Unit 1.5 Maze Explorers</p> <p>Number of lessons – 3</p> <p>Programs – 2Go</p>	<p>Unit 2.4 Questioning</p> <p>Number of lessons – 5</p> <p>Programs – 2Question, 2Investigate</p>
<p>NOS (National Online Safety) e-safety units every half term</p>	<p>Unit 1.6 Animated Story Books</p> <p>Number of lessons – 5</p> <p>Programs – 2Create A Story</p>	<p>Unit 2.7 Making Music</p> <p>Number of lessons – 3</p> <p>Programs – 2Sequence</p>
<p>Unit 2.3 Spreadsheets</p> <p>Number of lessons – 4</p> <p>Programs – 2Calculate</p>	<p>Unit 1.3 Pictograms</p> <p>Number of lessons – 3</p> <p>Programs – 2Count</p>	<p>Unit 2.8 Presenting Ideas</p> <p>Number of lessons – 4</p> <p>Programs – Various</p>

NOS (National Online Safety) units:

- Self Image and Identity
- Managing online information
- Health, wellbeing and lifestyle
- Privacy and security
- Online Reputation
- Online Bullying
- Copyright and ownership
- Online Relationships

Year 3 & 4 Cycle A

Purple Mash Computing Scheme of Work – Adapting and refining the scheme

Year 3\4 - Cycle A

Predominant Area of Computing*

	Computer Science		Information Technology		Digital Literacy
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*Most units will include aspects of all strands.

<p style="text-align: center;">Coding</p> <p>Number of lessons – 6</p> <p>Main Programs – 2Code</p> <p>See table below for breakdown.</p>	<p style="text-align: center;">NOS (National Online Safety) e-safety units every half term</p>	<p style="text-align: center;">Unit 3.3</p> <p style="text-align: center;">Spreadsheets</p> <p>Number of lessons – 3</p> <p>Programs – 2Calculate</p>
<p style="text-align: center;">Unit 3.4</p> <p style="text-align: center;">Touch Typing</p> <p>Number of lessons – 4</p> <p>Programs – 2Type</p>	<p style="text-align: center;">Unit 3.5</p> <p style="text-align: center;">Email (including email safety)</p> <p>Number of lessons – 6</p> <p>Programs – 2Email, 2Connect, 2DIY</p>	<p style="text-align: center;">Unit 3.6</p> <p style="text-align: center;">Branching Databases</p> <p>Number of lessons – 4</p> <p>Programs – 2Question</p>
<p style="text-align: center;">Unit 3.7</p> <p style="text-align: center;">Simulations</p> <p>Number of lessons – 3</p> <p>Programs – 2Simulate, 2Publish</p>	<p style="text-align: center;">Unit 3.8</p> <p style="text-align: center;">Graphing</p> <p>Number of lessons – 3</p> <p>Programs – 2Graph</p>	<p>NOS (National Online Safety) units:</p> <ul style="list-style-type: none"> Self Image and Identity Online Relationships Online Reputation Online Bullying Managing online information Health, wellbeing and lifestyle Privacy and security Copyright and ownership

Year 3 & 4 Cycle B

Purple Mash Computing Scheme of Work – Adapting and refining the scheme

Year 3\4 – Cycle B

Predominant Area of Computing*		
	Computer Science	
	Information Technology	
	Digital Literacy	

*Most units will include aspects of all strands.

<p style="text-align: center;">Coding</p> <p>Number of lessons – 6</p> <p>Main Programs – 2Code</p> <p>See table below for breakdown.</p>	<p style="text-align: center;">NOS (National Online Safety) e- safety units every half term</p>	<p style="text-align: center;">Unit 4.3 Spreadsheets</p> <p>Number of lessons – 6</p> <p>Programs – 2Calculate</p>
<p style="text-align: center;">Unit 4.4 Writing for different audiences</p> <p>Number of lessons – 5</p> <p>Programs – 2Email, 2Connect, 2DIY</p>	<p style="text-align: center;">Unit 4.5 Logo</p> <p>Number of lessons – 4</p> <p>Programs – Logo</p>	<p style="text-align: center;">Unit 4.6 Animation</p> <p>Number of lessons – 3</p> <p>Programs – 2Animate</p>
<p style="text-align: center;">Unit 4.7 Effective Search</p> <p>Number of lessons – 3</p> <p>Programs – Browser</p>	<p style="text-align: center;">Unit 4.8 Hardware Investigators</p> <p>Number of lessons – 2</p>	<p>NOS (National Online Safety) units:</p> <ul style="list-style-type: none"> • Self Image and Identity • Online Relationships • Online Reputation • Online Bullying • Managing online information • Health, wellbeing and lifestyle • Privacy and security • Copyright and ownership

Coding Breakdown

YEAR 3 & 4 - CYCLE A					
Using Flowcharts Unit 3.1, Lesson 1	Using Timers Unit 3.1, Lesson 2	'if' statements Unit 4.1, Lesson 2	Coordinates Unit 4.1, Lesson 3	Code, Test and Debug – Unit 3.1, Lesson 4	Design, Code, Test and Debug Unit 4.1, Lesson 1
YEAR 3 & 4 - CYCLE B					
Using Repeat Unit 3.1, Lesson 3	Repeat Until and 'if/else' Statements Unit 4.1, Lesson 4	Number Variables Unit 4.1, Lesson 5	Design and Make an Interactive scene Unit 3.1, Lesson 5-6	Making a Playable game – Unit 4.1, Lesson 6	

Year 5 & 6 Cycle A

Purple Mash Computing Scheme of Work – Adapting and refining the scheme

Year 5\6 – Cycle A

Predominant Area of Computing*		
	Computer Science	
	Information Technology	
	Digital Literacy	

*Most units will include aspects of all strands.

<p style="text-align: center;">Coding</p> <p>Number of lessons – 6</p> <p>Main Programs – 2Code</p> <p>See table below for breakdown.</p>	<p style="text-align: center;">NOS (National Online Safety) e- safety units every half term</p>	<p style="text-align: center;">Unit 5.3 Spreadsheets</p> <p>Number of lessons – 6</p> <p>Programs – 2Calculate</p>
<p style="text-align: center;">Unit 5.4 Databases</p> <p>Number of lessons – 4</p> <p>Programs – 2Question, 2Investigate</p>	<p style="text-align: center;">Unit 5.5 Game Creator</p> <p>Number of lessons – 5</p> <p>Programs – 2DIY 3D</p>	<p style="text-align: center;">Unit 5.6 3D Modelling</p> <p>Number of lessons – 4</p> <p>Programs – 2Design and Make</p>
<p style="text-align: center;">Unit 5.7 Concept Maps</p> <p>Number of lessons – 4</p> <p>Programs – 2Connect</p>	<p>NOS (National Online Safety) units:</p> <ul style="list-style-type: none"> • Self Image and Identity • Online Relationships • Online Reputation • Online Bullying • Managing online information • Health, wellbeing and lifestyle • Privacy and security • Copyright and ownership 	

Year 5 & 6 Cycle B

Purple Mash Computing Scheme of Work – Adapting and refining the scheme

Year 5\6 – Cycle B

Predominant Area of Computing*		
	Computer Science	
	Information Technology	
	Digital Literacy	

*Most units will include aspects of all strands.

<p style="text-align: center;">Coding</p> <p>Number of lessons – 6</p> <p>Main Programs – 2Code</p> <p>See table below for breakdown.</p>	<p style="text-align: center;">NOS (National Online Safety) e-safety units every half term</p>	<p style="text-align: center;">NOS (National Online Safety) e-safety units every half term</p>
<p style="text-align: center;">Unit 6.4</p> <p style="text-align: center;">Blogging</p> <p>Number of lessons – 4</p> <p>Programs – 2Blog</p>	<p style="text-align: center;">Unit 6.5</p> <p style="text-align: center;">Text Adventures</p> <p>Number of lessons – 5</p> <p>Programs – 2Code, 2Connect</p>	<p style="text-align: center;">Unit 6.6</p> <p style="text-align: center;">Networks</p> <p>Number of lessons – 3</p>
<p style="text-align: center;">Unit 6.7</p> <p style="text-align: center;">Quizzing</p> <p>Number of lessons – 6</p> <p>Programs – 2Quiz, 2DIY, Text Toolkit, 2Investigate</p>	<p>NOS (National Online Safety) units:</p> <ul style="list-style-type: none"> • Self Image and Identity • Online Relationships • Online Reputation • Online Bullying • Managing online information • Health, wellbeing and lifestyle • Privacy and security • Copyright and ownership 	

Coding Breakdown

YEAR 5 & 6 - CYCLE A					
Coding Efficiently Unit 5.1, Lesson 1	Simulating a physical system Unit 5.1, Lesson 2	Friction and Functions Unit 5.1, Lesson 4	Introducing Strings Unit 5.1, Lesson 5	Text Variable and Concatenation Unit 5.1, Lesson 6	User Input Unit 6.1, Lesson 5
YEAR 5 & 6 - CYCLE B					
Designing and writing a more complex program Unit 6.1, Lessons 1 & 2	Decomposition and Abstraction Unit 5.1, Lesson 3	Using Functions Unit 6.1, Lesson 3	Flowcharts and control simulations Unit 6.1, Lesson 4	Text Adventure Unit 6.1, Lesson 6	