

KEYSTAGE1 COMPUTING

National Curriculum links

Pupils should be taught to:

- understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions
- create and debug simple programs
- use logical reasoning to predict the behaviour of simple programs
- 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

Purple Mash and Cornerstones Curriculum

Autumn Term		Spring Term		Summer Term	
<p><u>Y1 / Y2 Cycle A</u> <i>E -Safety and Online safety</i></p> <p>Unit 1 Online Safety Exploring Purple Mash Digital /literacy</p> <p>Unit 2.5 Effective Searching</p>	<p>Unit 1.4 Lego Builders Computer Science</p> <p>Unit 1.2 Grouping & Sorting</p>	<p>Unit 1.7 Coding Computer Science</p>	<p>Unit 2.6 Creating Pictures Information Technology</p>	<p>Unit 1.8 Spreadsheets Information Technology</p> <p>Unit 1.9 Technology outside school</p>	<p>Unit 2.1 Coding Computer Science</p>

<u>Y1 Y2 Cycle B</u> Unit 1 Online Safety Exploring Purple Mash Digital /literacy	Unit 1. 6 Animated story books Information Technology	Unit 2.7 Making Music Information Technology Unit 1.5 Maze Explorers	Unit 2.2 Online Safety Unit 1.5 Maze Explorers Computer Science	Unit 2.3. Spreadsheets Information Technology Unit 1.3. Pictograms Information Technology	Unit 2.4 Questioning Information Technology

KEYSTAGE 2 COMPUTING**Year 3 and 4**

Pupils should be taught to:

- Design, write and debug programs that accomplish specific goal, including controlling or stimulating physical systems, solve problems by decomposing them into smaller parts.
- Use sequence, selection and repetition in programs; work with variables and various forms of input and output.
- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.
- Understand computer networks, including the internet; how they can provide multiple services, such as the World- Wide- Web, and the opportunities they offer for communication and collaboration.
- Use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content.
- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.
- Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.

Purple Mash and Cornerstones Curriculum

Autumn Term		Spring Term		Summer Term	
<u>Y3 Y4 Cycle A</u> <i>E -Safety and Online safety</i> Unit 3.2 Online safety Digital Literacy Unit 3.3 Spreadsheets Information Technology	Coding Computer Science	Unit 3.5 Email (including email safety) Digital Literacy	Unit 3.7 Simulations Information Technology Unit 3.8 Graphing	Unit 3.4 Touch Typing Information Technology	Unit 3.6 Branching Databases Information Technology
<u>Y3 Y4 Cycle B</u> <i>E -Safety and Online safety</i> Unit 4.2 Online safety Digital Literacy Unit 4.6 Animation Information Technology	Coding Computer Science	Unit 4.4 Writing for different audiences Information Technology	Unit 4.3 Spreadsheets Information Technology	Unit 4.5 Logo Computer Science Unit 4.8 Hardware Investigators Computer Science	Unit 4.7. Effective Search Information Technology

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KEYSTAGE 2 COMPUTING

Years 5 and 6

Pupils should be taught to:

- Design, write and debug programs that accomplish specific goal, including controlling or stimulating physical systems, solve problems by decomposing them into smaller parts.
- Use sequence, selection and repetition in programs; work with variables and various forms of input and output.
- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.
- Understand computer networks, including the internet; how they can provide multiple services, such as the World- Wide- Web, and the opportunities they offer for communication and collaboration.
- Use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content.
- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.
- Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.

Purple Mash and Cornerstones Curriculum

Autumn Term		Spring Term		Summer Term	
<u>Y5 Y6 Cycle A</u> <i>E -Safety and Online safety</i> Unit 5.2 Online Safety Digital Literacy					
		Unit 5.4. Databases		Unit 5.5 Game Creator	Unit 5.7 Concept Maps

Unit 5.3 Spreadsheets Information Technology	Coding Computer Science	Information Technology	Unit 5.6 3D Modelling Information Technology	Computer Science	Computer Science
<u>Y5 Y6 Cycle B</u> <i>E -Safety and Online safety</i> Unit 6.2 Online safety Digital Literacy Unit 6.3 Spreadsheets Information Technology	Coding Computer Science	Unit 6.5 Text Adventures Computer Science	Unit 6.7 Quizzing Information Technology	Unit 5.8 Word processing Information Technology	Unit 6.4 Blogging Computer Science Unit 6.6 Networks Computer Science