National curriculum coverage in Computing

through teaching an adapted version of the Purple Mash scheme of work

Year 1	Unit Focus
Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions	Lego Builders Maze Explorers Coding
Create and debug simple programs	Maze Explorers Coding
Use logical reasoning to predict the behaviour of simple programs	Maze Explorers Coding
Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Online Safety & Exploring Purple Mash Coding
Recognise common uses of information technology beyond school	Technology outside 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	Online Safety & Exploring Purple Mash

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Year 2	Unit Focus
Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions	Coding
Create and debug simple programs	Coding
Use logical reasoning to predict the behaviour of simple programs	Coding
Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Coding Effective Searching Creating Pictures Presenting Ideas
Recognise common uses of information technology beyond school	Effective Searching
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	Effective Searching Presenting Ideas

Year 3	Unit Focus
Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	Coding
Use sequence, selection, and repetition in programs; work with variables and various forms of input and output	Coding
Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	Coding
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	Email
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	Taught in Y4
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	Coding Email Branching databases
Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	Email

Year 4	Unit Focus
Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	Coding Logo
Use sequence, selection, and repetition in programs; work with variables and various forms of input and output	Coding
Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	Coding Logo
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	Effective Searching
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	Effective Searching
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	Coding Spreadsheets
Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	Taught in Y3 and across the wider curriculum

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Year 5	Unit Focus
Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	Coding
Use sequence, selection, and repetition in programs; work with variables and various forms of input and output	Coding
Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	Coding
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	Hardware Investigators (4.8)
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	Databases
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	Coding Databases Game Creator
Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	Taught in Y3 and across the wider curriculum

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Year 6	Unit Focus
Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	Coding
Use sequence, selection, and repetition in programs; work with variables and various forms of input and output	Coding
Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	Coding
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	Networks
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	Taught in Y4
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	Coding Spreadsheets Quizzing
Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	Taught in Y3 and across the wider curriculum