



Progression Document for KS1 Computing

Unit: Online Safety					
Big Question	National Curriculum Links	Core Knowledge	Disciplinary Knowledge	Key Vocabulary	Outcomes
How can we use technology safely and responsibly?	Use technology safely and respectfully, keep personal information private, recognise appropriate online behaviour, identify where to go for help and support when using the internet or digital technology.	The internet can be used safely, personal information should be kept private, online actions can affect feelings, we should be kind online, permission is needed before sharing, technology use should be balanced with other activities.	Recognise safe and unsafe online choices, explain how online actions may affect others, identify information that should remain private, make appropriate choices about sharing, know when and how to ask a trusted adult for help.	online, internet, private, personal, share, permission, kind, safe, trusted, technology	Make safe and responsible choices when using technology, including protecting personal information, behaving kindly and knowing when to ask for help.
Unit: Programming 1: Commands Unplugged					
Big Question	National Curriculum Links	Core Knowledge	Disciplinary Knowledge	Key Vocabulary	Outcomes
How can we give clear instructions to make things happen?	Understand what algorithms are, understand that programs follow precise and unambiguous instructions, create and debug simple programs, use logical reasoning to predict the behaviour of simple programs.	Commands are instructions, computers need clear and precise commands, instructions need to be in the correct order, a sequence is a set of ordered instructions, errors can stop instructions working correctly.	Follow commands, give clear instructions, create sequences of instructions, predict outcomes, identify errors, fix and improve instructions, explain why a sequence works.	command, instruction, sequence, algorithm, program, debug, error, predict, order, precise	Create, follow and debug a sequence of clear instructions, explaining how commands need to be precise and correctly ordered.
Unit: Skills Showcase: Rocket to the Moon					
Big Question	National Curriculum Links	Core Knowledge	Disciplinary Knowledge	Key Vocabulary	Outcomes
How can we use our computing skills to design and build a rocket?	Use technology purposefully to create, organise, store, manipulate and retrieve digital content, develop keyboard and mouse skills, use digital tools to create designs and record information.	Computers can be used to create lists, drawing software can be used to create and label designs, instructions must be sequenced in the correct order, digital tools can help us record and organise information.	Computers can be used to create lists, drawing software can be used to create and label designs, instructions must be sequenced in the correct order, digital tools can help us record and organise information.	computer, keyboard, mouse, design, list, sequence, instructions, data, distance, evaluate	Design, build and test a model rocket, using digital tools to create lists and designs, sequence instructions and record results.
Unit: Computing Systems and Networks: What is a Computer?					
Big Question	National Curriculum Links	Core Knowledge	Disciplinary Knowledge	Key Vocabulary	Outcomes
What is a computer and how does it work?	Recognise common uses of information technology beyond school, understand how technology is used in the wider world, use technology purposefully, identify different types of digital devices and their uses.	Computers are made from different parts, hardware is the physical parts of a computer, inputs send information to a computer, computers are found in many everyday objects, technology can be designed to perform different tasks.	Identify computer parts, recognise different inputs, classify technology, explain how technology is used, identify computers in the environment, apply understanding to design a simple invention.	computer, hardware, input, keyboard, mouse, screen, technology, device, invention, information	Identify the main parts of a computer, explain how inputs work and recognise how computers and technology are used in everyday life.
Unit: Programming 1: Algorithms and Debugging					
Big Question	National Curriculum Links	Core Knowledge	Disciplinary Knowledge	Key Vocabulary	Outcomes
How can we create and improve algorithms?	Understand what algorithms are, understand that programs follow precise instructions, create and debug simple programs, use logical reasoning to predict the behaviour of simple programs.	Algorithms are sets of ordered instructions, instructions must be clear and precise, programs follow algorithms, algorithms can be represented in different ways, debugging means finding and fixing errors.	Create algorithms, sequence instructions, predict outcomes, follow algorithms, identify errors, debug and improve algorithms, explain how a program works.	algorithm, program, sequence, instruction, command, debug, error, predict, code, logic	Create and follow simple algorithms, identify and debug errors and use logical reasoning to predict outcomes.

Unit: Computing Systems and Networks 2: Word Processing					
Big Question	National Curriculum Links	Core Knowledge	Disciplinary Knowledge	Key Vocabulary	Outcomes
How can we use a computer to create and edit written work?	Use technology purposefully to create, organise, store, manipulate and retrieve digital content, develop understanding of common uses of information technology, use technology safely and responsibly.	Keyboards are used to enter text, word processors allow us to create and edit writing, text can be formatted in different ways, keyboard shortcuts can make tasks quicker, digital work can be saved and changed.	Use a keyboard accurately, type and edit text, use spaces and punctuation, format text, use simple keyboard shortcuts, save and retrieve work, make choices to improve digital writing.	keyboard, word processor, text, type, edit, format, font, shortcut, save, document	Create, edit and format a digital piece of writing, using keyboard and word-processing skills effectively.