

Computing Curriculum Learning Statements Overview 2023-24

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year R	What's your favourite fairy-tale? <i>I can use technology safely and respectfully and responsibly.</i>	What changes in our environment can you see? <i>I can use technology safely and respectfully and responsibly.</i>	What can you see through a telescope? <i>I can use technology safely and respectfully and responsibly.</i>	If you were a fish, what fish would you be? <i>I can use technology safely and respectfully and responsibly.</i>	How does your garden grow? <i>I can use technology safely and respectfully and responsibly.</i>	Are you mad about animals? <i>I can use technology safely and respectfully and responsibly.</i>
Year 1	Computer Systems and networks – Technology around us (How have toys changed overtime?) We will be: Developing an understanding of technology and how it helps us. We will be naming the different parts of technology and exploring how to use a mouse and keyboard to write sentences online. <i>I can recognise the common uses of information technology beyond school.</i> <i>I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.</i> <i>I can use technology safely and respectfully and responsibly.</i>	How does the weather change over seasons? We will be: Learning to use technology with a purpose to create. The children will be using their mouse skills to create self-portraits and paintings in the style of different artists. They will then decide which method they prefer. <i>I can use technology safely and respectfully and responsibly.</i> <i>Use technology purposefully to create, organise, store, manipulate, and retrieve digital content.</i>	Who is the oldest reigning monarch? We will be: Learning to use technology with a purpose to create. The children will be using their mouse skills to create self-portraits and paintings in the style of different artists. They will then decide which method they prefer. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.</i>	How is London different to where we live? We will be: Developing our understanding of different aspects of a computer to create and manipulate text. The children will become more familiar with using a mouse and keyboard to type and log into a computer. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.</i>	What makes the seaside the seaside? We will be: Exploring data and information. We will begin grouping and labelling important aspects of data and information. The children will learn how to search and find information. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can understand what algorithms are and can design, write and debug programs.</i> <i>I can use logical reasoning to predict and explain how some simple algorithms work and to detect and correct errors.</i>	Who was Mary Anning and how did she change history? We will be: Beginning to develop our programming skills. Children will use scratch jr to explore different commands and start to predict the outcome of programs. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can understand what algorithms are and can design, write and debug programs.</i> <i>I can use logical reasoning to predict and explain how some simple algorithms work and to detect and correct errors.</i>
Year 2	Computer Systems and networks – Information Technology around us (What does a Pirate need to reach the treasure?) Turning on and off computers, logging in and saving and opening documents. <i>I can recognise the common uses of information technology beyond school.</i> <i>I can use technology safely and respectfully and responsibly.</i>	How did the fire change London? Learning how to take a photo on an iPad by zooming in and focusing on what you are taking the picture of. <i>I can use technology safely and respectfully and responsibly.</i> <i>Use technology purposefully to create, organise, store, manipulate, and retrieve digital content</i>	How does the weather change the closer you get to the equator? Learning how to make music using an online system. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can select, use and combine a variety of software on a range of digital devices.</i> <i>I can use technology purposefully to create, organise, store,</i>	Could The Titanic have been saved? Creating Pictograms by collating data first and then inputting it into a system. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.</i>	How has Andover changed? Program the Beebots to complete a route around the table. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can understand what algorithms are and can design, write and debug programs.</i> <i>I can use logical reasoning to predict and explain how some simple algorithms work and to detect and correct errors.</i>	How is Kingston different to Andover? Use Scratch Jr. to create quizzes. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can understand what algorithms are and can design, write and debug programs.</i> <i>I can use logical reasoning to predict and explain how some simple algorithms work and to detect and correct errors.</i>

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			<i>manipulate and retrieve digital content.</i>			
Year 3	Computer Systems and networks – Connecting Computers Did it rock to live in Stone Age Britain? We will be: explaining how digital devices function, what input and output devices are linked to the object and explain how the computer network can be used to share information. <i>I can understand computer networks.</i> <i>I can use technology safely and respectfully and responsibly.</i>	When was life in Andover better? The Iron Age or Stone Age? We will be: explaining what an animation is be creating a sequence of images, relating a movement to a sequence of images before planning and creating our own animation using photographs. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can select, use and combine a variety of software on a range of digital devices.</i>	How extreme can Earth be? We will be: recognising how text and images can convey information and understand how text and layouts can be edited. We will begin to choose appropriate page layouts for a task and add content to a desktop publication. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can select, use and combine a variety of software on a range of digital devices.</i>	Why should we save Earth's Rainforests? We will be: creating questions with yes or no answers before identifying attributes to help collect relevant information. We will then create a branching database <i>I can use technology safely and respectfully and responsibly.</i> <i>I can select, use and combine a variety of software on a range of digital devices.</i>	Who were the Romans? What did they do for us? We will be: exploring a new programming environment before identifying how each sprite is controlled by commands, before explaining how a program starts and how the sequences of commands have been ordered. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can understand what algorithms are and can design, write and debug programs.</i> <i>I can use logical reasoning to predict and explain how some simple algorithms work and to detect and correct errors.</i>	Andover- How do we use our land? We will be: explaining how a sprite moves in an existing project before creating a program to move a sprite and adapting a program for a new context. We will also be developing and adding new features and identifying and fixing bugs along the way. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can understand what algorithms are and can design, write and debug programs.</i> <i>I can use logical reasoning to predict and explain how some simple algorithms work and to detect and correct errors.</i>
Year 4	Computer Systems and networks – The Internet "Why do so many people settle in Megacities?" We will be: Exploring network components and safe sharing of information. <i>I can understand computer networks.</i> <i>I can use technology safely and respectfully and responsibly.</i>	"Were the Anglo Saxons the ruin of Britain?" We will be: Using tablets to plan and record podcasts, listening to and editing to share. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can select, use and combine a variety of software on a range of digital devices.</i>	"Were the Vikings Raiders or Traders?" We will be: Changing and creating images, looking at fake images. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can select, use and combine a variety of software on a range of digital devices.</i>	"Where does the River Anton begin and end?" We will be: Collecting, logging and analysing data using algorithms. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can select, use and combine a variety of software on a range of digital devices.</i>	"Was King Alfred really great?" We will be: Using devices to program objects such as shapes and turtles, repeating them by using loops. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can understand what algorithms are and can design, write and debug programs.</i> <i>I can use logical reasoning to predict and explain how some simple algorithms work and to detect and correct errors.</i>	Is the Costa Brava a world away from our local area? We will be: Using loops to create name games. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can understand what algorithms are and can design, write and debug programs.</i> <i>I can use logical reasoning to predict and explain how some simple algorithms work and to detect and correct errors.</i>

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Year 5	Computer Systems and networks – Sharing Information What was the greatest achievement for each civilisation? We will be: Exploring how networks communicate with each other. <i>I can understand what algorithms are and can design, write and debug programs.</i> <i>I can understand computer networks.</i> <i>I can select, use and combine a variety of software on a range of digital devices.</i> <i>I can use technology safely and respectfully and responsibly.</i>	Where in Russia would you launch a space rocket? We will be: Using Google Drawings to create vector drawings – using layering, resizing and rotating. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can select, use and combine a variety of software on a range of digital devices.</i>	What was everyday life for men, women and children in ancient Egypt? We will be: Creating short informative videos, using editing skills to refine their original recordings. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can select, use and combine a variety of software on a range of digital devices.</i>	Why does parliament run the country rather than the king? We will be: Learning how to refine searches within a database to answer question – focusing on using ‘and’ and ‘nor’ commands. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can select, use and combine a variety of software on a range of digital devices.</i>	Why would a refugee want to move to Andover? We will be: Using Scratch to create multi-question quizzes where the response links to the next actions and keep score too. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can understand what algorithms are and can design, write and debug programs.</i> <i>I can use logical reasoning to predict and explain how some simple algorithms work and to detect and correct errors.</i>	Are we protecting our British wildlife? We will be: Using Crumbles software and hardware to programme a Crumble controller to make peripheral devices fulfil certain actions or sequences. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can understand what algorithms are and can design, write and debug programs.</i> <i>I can use logical reasoning to predict and explain how some simple algorithms work and to detect and correct errors.</i>
Year 6	Computer Systems and networks - Communication Are there mountains in the UK? We will be: Using and evaluating different search engines and understanding how they work. Exploring online communication methods and how to use them safely. <i>I can understand computer networks.</i> <i>I can select, use and combine a variety of software on a range of digital devices.</i> <i>I can use technology safely and respectfully and responsibly.</i>	Andover or the Canadian Wilderness – which biome would you choose? We will be: Using software to work with 2D and 3D graphics <i>I can use technology safely and respectfully and responsibly.</i> <i>I can select, use and combine a variety of software on a range of digital devices.</i>	Why is the Mayan culture important? We will be: Review an existing webpage, plan and create our own web page <i>I can use technology safely and respectfully and responsibly.</i> <i>I can select, use and combine a variety of software on a range of digital devices.</i>	Which countries grow cocoa and how do we get chocolate? We will be: Exploring spreadsheets, modifying them and using them to answer questions. Beginning to understand and use formula and create a spreadsheet to plan an event. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can select, use and combine a variety of software on a range of digital devices.</i>	How have the Ancient Greeks influenced the modern western world? We will be: Learning about variables and change in programming to improve and design games. <i>I can use technology safely and respectfully and responsibly.</i> <i>I can understand what algorithms are and can design, write and debug programs.</i> <i>I can use logical reasoning to predict and explain how some simple algorithms work and to detect and correct errors.</i>	How have the Ancient Greeks influenced the modern western world? We will be: creating a program to run on a controllable device <i>I can use technology safely and respectfully and responsibly.</i> <i>I can understand what algorithms are and can design, write and debug programs.</i> <i>I can use logical reasoning to predict and explain how some simple algorithms work and to detect and correct errors.</i>