

# Computing Curriculum Overview

## Key Stage 1

Term	Year A	Year B	Year C	Year D
Autumn 1	<b>WE ARE HISTORIANS</b>	<b>WE ARE PHILOSOPHERS</b>	<b>WE ARE CONSERVATIONISTS</b>	<b>WE ARE PALAEOONTOLOGISTS</b>
	COMA1 • Digital skills (keyboard) Can you type? <a href="https://www.purplemash.com/#tab/home/tools/2type2">https://www.purplemash.com/#tab/home/tools/2type2</a>	COMB1 • Online safety (personal information) What information can you share online? ( <a href="https://www.thinkuknow.co.uk">https://www.thinkuknow.co.uk</a> )	COMC1 • Coding Can you use ScratchJr to show how a seed or bulb grows into a mature plant? ( <a href="https://www.scratchjr.org/">https://www.scratchjr.org/</a> )	COMD1 • Digital skills (keyboard) Can you use 2Write to create a dinosaur story collaboratively? ( <a href="https://www.purplemash.com/#app/jsapps/write">https://www.purplemash.com/#app/jsapps/write</a> )
Autumn 2	<b>WE ARE PUPPETEERS</b>	<b>WE ARE SCIENTISTS</b>	<b>WE ARE STORYTELLERS</b>	<b>WE ARE PAINTERS</b>
	COMA2 • Digital skills (animation) Can you use Puppet Pals to make an animation about preventing bullying?	COMB2 • Digital skills (data) Can you use 2Count to represent data about our favourite toys? <a href="https://www.purplemash.com/#app/tools/2count">https://www.purplemash.com/#app/tools/2count</a>	COMC2 • Communicating & collaborating Can you work together to create a story in 2write? ( <a href="https://www.purplemash.com/#app/jsapps/write">https://www.purplemash.com/#app/jsapps/write</a> )	COMD2 • Coding Can you use ScratchJr to tell the story of the changing seasons? ( <a href="https://www.scratchjr.org/">https://www.scratchjr.org/</a> )
Spring 1	<b>WE ARE ANIMATORS</b>	<b>WE ARE NATURALISTS</b>	<b>WE ARE ARCHITECTS</b>	<b>WE ARE SCULPTORS</b>
	COMA3 • Coding Can you make a ScratchJr animation with changing scenes? ( <a href="https://www.scratchjr.org/">https://www.scratchjr.org/</a> )	COMB3 • Coding Can you programme the bee to visit the different flowers? ( <a href="https://www.purplemash.com/#app/tools/2go">https://www.purplemash.com/#app/tools/2go</a> )	COMC3 • Digital skills (3D modelling) Can you construct a house using 2DesignandMake? ( <a href="https://www.purplemash.com/#app/tools/2dam">https://www.purplemash.com/#app/tools/2dam</a> )	COMD3 • Digital skills (3D modelling) Can you create a digital sculpture? <a href="https://makers.leopoly.com/">https://makers.leopoly.com/</a>
Spring 2	<b>WE ARE ACTIVISTS</b>	<b>WE ARE ROBOTICS ENGINEERS</b>	<b>WE ARE MINIATURISTS</b>	<b>WE ARE SPACE MISSION DESIGNERS</b>
	COMA4 • Communicating & collaborating Can you create a blog in Purple Mash? ( <a href="https://www.purplemash.com/app/link/2blogchildren#/app/admin/home">https://www.purplemash.com/app/link/2blogchildren#/app/admin/home</a> )	COMB4 • Coding Can you programme a robotic animal? (codapillars/Kitronik robots)	COMC4 • Digital skills (keyboard) & comics Can you use Book Creator to make a comic about a miniature superhero? ( <a href="https://bookcreator.com/">https://bookcreator.com/</a> )	COMD4 • Coding Can you programme a spaceship to make a journey through space? ( <a href="https://www.purplemash.com/#app/tools/2go">https://www.purplemash.com/#app/tools/2go</a> )

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Summer 1	<b>WE ARE INVENTORS</b>	<b>WE ARE ANTHROPOLOGISTS</b>	<b>WE ARE FILM MAKERS</b>	<b>WE ARE COSTUME DESIGNERS</b>
	COMA5 ● Online safety (games) Can you play games together safely online? ( <a href="https://www.thinkuknow.co.uk">https://www.thinkuknow.co.uk</a> )	COMB5 ● Communicating & collaborating Can you carry out a simple survey to find out what we had for breakfast? ( <a href="https://www.purplemash.com/#app/tools/2survey">https://www.purplemash.com/#app/tools/2survey</a> )	COMC5 ● Online safety (Videos & pictures) Can you share pictures and videos safely online? ( <a href="https://www.thinkuknow.co.uk">https://www.thinkuknow.co.uk</a> )	COMD5 ● Digital skills (paint) Can you design a costume or mask using Paint Projects? ( <a href="https://www.purplemash.com/#tab/home/tools/paintprojects">https://www.purplemash.com/#tab/home/tools/paintprojects</a> )
Summer 2	<b>WE ARE AUTOMOTIVE ENGINEERS</b>	<b>WE ARE PERFORMERS</b>	<b>WE ARE ENTREPRENEURS</b>	<b>WE ARE BROADCASTERS</b>
	COMA6 ● Coding (moving vehicles) Can you programme Cinderella's carriage to take her to the castle? (Bee-bots)	COMB6 ● Digital skills (sound) Can you create a digital composition? <a href="https://www.purplemash.com/#tab/home/tools">https://www.purplemash.com/#tab/home/tools</a>	COMC6 ● Coding Can you invent a game with the Bee-Bots, creating your own floor mat?	COMD6 ● Online safety (Chat) Can you chat safely online? ( <a href="https://www.thinkuknow.co.uk">https://www.thinkuknow.co.uk</a> )

## Key Stage 2

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Autumn 1	<b>WE ARE HISTORIANS</b>	<b>WE ARE PHILOSOPHERS</b>	<b>WE ARE CONSERVATIONISTS</b>	<b>WE ARE PALAEOLOGISTS</b>
	COMA1 • Coding (machine learning): Can you make a computer quiz show about the Romans? ( <a href="https://machinelearningforkids.co.uk/">machinelearningforkids.co.uk</a> )	COMB1 • Online safety ('Share' & 'Lock') Can you share your ideas electronically, making sure you stay safe online? ( <a href="https://www.thinkuknow.co.uk/">https://www.thinkuknow.co.uk/</a> )	COMC1 • Coding (sensors) Can you build a green wall, using monitoring and control to check growing conditions? (BBC micro:bit light sensor/ <a href="https://machinelearningforkids.co.uk/">https://machinelearningforkids.co.uk/</a> , 'Smart Classroom')	COMD1 • Coding (movement): Can you make an animatronic dinosaur? (BBC micro:bit)
Autumn 2	<b>WE ARE PUPPETEERS</b>	<b>WE ARE SCIENTISTS</b>	<b>WE ARE STORYTELLERS</b>	<b>WE ARE PAINTERS</b>
	COMA2 • CAD - Tinkercad Can you use CAD tools to create a puppet character? ( <a href="https://www.tinkercad.com/">https://www.tinkercad.com/</a> )	COMB2 • Coding (machine learning) Can you make a machine learn? (Alexa, & 'Make me happy' <a href="https://machinelearningforkids.co.uk/">https://machinelearningforkids.co.uk/</a> )	COMC2 • Coding (gaming) Can you make an arcade game based on a Norse myth? ( <a href="http://www.makecode.arcade">www.makecode.arcade</a> )	COMD2 • Communicating & collaborating Can you create a virtual gallery? (VR)
Spring 1	<b>WE ARE ANIMATORS</b>	<b>WE ARE NATURALISTS</b>	<b>WE ARE ARCHITECTS</b>	<b>WE ARE SCULPTORS</b>
	COMA3 • Coding (Scratch animation) Can you create a Scratch animation? ( <a href="https://scratch.mit.edu/">https://scratch.mit.edu/</a> )	COMB3 • Coding (movement) Can you programme a robot so that it can navigate its environment? (BBC micro:bit & kitronic robot & Sphero)	COMC3 • CAD - Sketchup Can you design and make a building for a model eco-village? ( <a href="https://www.sketchup.com/">https://www.sketchup.com/</a> )	COMD3 • CAD - Tinkercad Can you use CAD tools to sculpt? ( <a href="https://www.tinkercad.com/">https://www.tinkercad.com/</a> )
Spring 2	<b>WE ARE ACTIVISTS</b>	<b>WE ARE ROBOTICS ENGINEERS</b>	<b>WE ARE MINIATURISTS</b>	<b>WE ARE SPACE MISSION DESIGNERS</b>
	COMA4 • Communicating & collaborating Can you work collaboratively, using your choice of media to share your ideas and opinions?	COMB4 • Coding (sensors) Can you make a robotic animal that responds to its environment? (Insects, reptiles and amphibians - BBC micro:bit & kitronic robot/'Chameleon' - <a href="https://machinelearningforkids.co.uk/">https://machinelearningforkids.co.uk/</a> )	COMC4 • Coding (sensors) Can you make a 'clap light' for a dolls house?	COMD4 • Coding (movement & sensors) Can you programme a Mars Rover? (NXT Mars Rover Challenge, National Space Centre trip)
Summer 1	<b>WE ARE INVENTORS</b>	<b>WE ARE ANTHROPOLOGISTS</b>	<b>WE ARE FILM MAKERS</b>	<b>WE ARE COSTUME DESIGNERS</b>
	COMA5 • Coding (movement) Can you create an animatronic bird? (BBC micro:bit)	COMB5 • Communicating & collaborating Can you create a virtual learning environment for our topic? ( <a href="https://education.minecraft.net">https://education.minecraft.net</a> )	COMC5 • Communicating & collaborating Can you create a virtual film studio? (Google Classroom)	COMD5 • Coding (Scratch animation) Can you design a character's costume in Scratch? ( <a href="https://scratch.mit.edu/">https://scratch.mit.edu/</a> )

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Summer 2	<b>WE ARE AUTOMOTIVE ENGINEERS</b>	<b>WE ARE PERFORMERS</b>	<b>WE ARE ENTREPRENEURS</b>	<b>WE ARE BROADCASTERS</b>
	COMA6 ● Online Safety ('Explore') Can you explore ideas online safely? ( <a href="https://www.thinkuknow.co.uk">https://www.thinkuknow.co.uk</a> )	COMB6 ● CAD – Tinkercad Can you use CAD tools to create a set design? ( <a href="https://www.tinkercad.com/">https://www.tinkercad.com/</a> or <a href="https://www.sketchup.com/">https://www.sketchup.com/</a> )	COMC6 ● Online safety ('Play') Can you play online games safely? ( <a href="https://www.thinkuknow.co.uk">https://www.thinkuknow.co.uk</a> )	COMD6 ● Online safety ('Chat' & 'Like') Can you chat safely online? ( <a href="https://www.thinkuknow.co.uk">https://www.thinkuknow.co.uk</a> )