

**Computing curriculum questions**

<b>EYFS</b>			
	<b>Unit 1: What is Purple Mash? How can I use computing to sort information?</b>	<b>Unit 2: How can I use computers to present information? Can I become a lego builder?</b>	<b>Unit 3: Can I create my own digital story?</b>
<b>Year 1</b>	1) What is Purple Mash? 2) How can I search Purple Mash and find my saved work? 3) How can I add pictures or text to my work? 4) Can I explore Purple Mash and complete games set for me? 5) Can I sort items using different criteria? 6) Can I use the computer to sort items?	1) What is data and how can it be shown? 2) What is a pictogram and how is it used to present data? 3) Can I record the results using a pictogram? 4) Why is it important to follow instructions? 5) Can I follow simple instructions on a computer? 6) How does the order of instructions affect the result?	1) What is 2Create a Story? 2) How can I add an animation to a story? 3+4) Can I add sound, recordings and music to a story? 5) Can I add a background to my story by copying and pasting an image? 6) Can I make a story better using the tools I've used?
	<b>Unit 4: What are Spreadsheets? Can I use an algorithm to be a Maze Explorer?</b>	<b>Unit 5: Can I use coding to make objects perform actions or sounds?</b>	<b>Unit 6 Geography: How is technology used inside and outside of school?</b>
	-What is happening when the earth shakes? -What is happening when the Earth rattles and rolls? -Does the Earth shake, rattle and roll all over? -How and why do people live where the Earth shakes, rattles and rolls? -How disastrous have recent earthquakes/volcanic eruptions been? -Can we make a volcanic model that erupts?	1) What is coding? 2) How can I use 2Code to create a simple program? 3) Can I use Design Mode to add or change backgrounds and characters? 4) Can I add an additional character who moves when clicked? 5) Can I make characters stop when the background is clicked? 6) How can I make objects perform actions or sounds?	1) To walk around the local community and find examples of where technology is used. 2) To record examples of technology outside school.  <b>Local area walk</b>
	<b>Unit 1: Can I use more advanced coding techniques including the repeat and timer commands?</b>	<b>Unit 2: What is email and how can I share my work? How can I use technology to count data?</b>	<b>Unit 3: How can I use digital media to recreate artist's work?</b>
<b>Year 2</b>	1) What is coding and how do I use 2Code? 2) How can I add a background or character and make your character move? 3) What is Collision Detection? 4) How can I use the repeat and timer commands? 5) What is meant by debugging and why is it important? 6) Can I explore the actions of different objects?	) How can I use the internet to search and share my work? 2) What is email and how does it work? 3) What are spreadsheets and how do they work? 4) What are the Copying and Pasting tools and how do they work? 5) How can I use a spreadsheet to count money? 6) How can I use the 'speak' and 'count' function in 2Calculate to count items?	1) Who were the Impressionists and can I recreate a piece using 2Paint a picture? 2) Who were the Pointillists and can I recreate a piece using 2Paint a picture? 3) Who was Piet Mondrian and can I recreate a piece using the Lines template? 4) Who was William Morris and can I recreate a piece using the patterns template? 5) What is surrealism and can I create my own piece using eCollage?

	<b>Unit 4: How can I use binary trees to present data?</b>	<b>Unit 5: How can I use the internet to research? Can I be a digital music producer?</b>	<b>Unit 6: Can I make a digital presentation?</b>
	1) Can pictograms answer complex questions? 2) How can I use yes/no answers to separate information? 3) What is a binary tree and how do I make one? 4) How do I use a binary tree to answer questions? 5+6) Can I use a database to answer more complex questions and use the search tool to find specific information?	1) How can I search for information on a computer? 2) How can I use the internet for search and how do I keep safe? 3) Can I produce a leaflet to help another child search for information on the internet? 4) What is 2Sequence and how can I use it to make music digitally? 5) Can I change a tune by adding sounds to express feelings? 6) Can I use my own sounds to create my own tune?	1) How can I present a story in different ways using software? 2) Can make a quiz based on a class topic? 3+4) Can I present a fact file based on a chosen topic? 5+6) Can I design and present information to the rest of the class?
	<b>Unit 1: How can I be safe online? Can I become an amazing touch typer?</b>	<b>Unit 2: No timetabled computing</b>	<b>Unit 3: How can I use email to communicate online?</b>
<b>Year 3</b>	1) How can the internet be used to communicate using blogs? How can I make my password secure and what happens if I give it away? 2) What is a spoof webpage and how accurate is the information presented? 3) What are PEGI ratings and how do they keep us safe? 4) How do I type on a regular keyboard and where are the location of different keys? 5) How can I practise my typing using the position of the rows? 6) Which keys do I need to type with my left hand? Which keys do I need to type with my right hand?		1) How do we communicate in different ways? 2) How to I read emails and reply to them? 3+4) How can I use email safely? 5) How do I add attachments to an email? 6) What would you do in this email scenario?
	<b>Unit 4: How can I use paint to create digital art pieces?</b>	<b>Unit 6: Can I use more advanced coding techniques including the introduction of variables?</b>	<b>Unit 2: No timetabled computing</b>
	1) What effects can I create using different brushes on paint? 2) What shapes can I create using paint and how do I duplicate shapes? 3+4) Can I create a background for Iron Man? 5) Can I create an Iron Man using shapes on paint? 6) Can I use the skills I have learned to create my own piece of art?	1) What is coding and how do I use 2Code? 2) How can I use timers to create an effect? 3) How do I use repetition commands in coding? 4) How can I add choice to my coding? 5) What is meant by debugging and why is it important? 6) What is a variable in coding and why are they important?	
	<b>Unit 1: Can I create my own program using 2code?</b>	<b>Unit 2: No timetabled computing</b>	<b>Unit 3: How can I be an effective researcher? Can I create my own stop motion animation?</b>
<b>Year 4</b>	1) What is coding and how do I use 2Code? 2) How can I make an object repeat an action on a timer or indefinitely? 3) What code can I use to give selection or choice? 4) What is a variable in coding and what do they do? 5) How do you make a character respond to or repeat an action?		1) How do I search for information on the internet? 2) How can I make my searches more effective? 3) Is the information I search for always reliable? 4) What makes a good animated film and how are they made? 5) What is the Onion Skinning tool and how does it work? 6) What is stop motion animation? How can I create my own?

	6) Can I use my coding skills to create my own program? Can I evaluate and debug my program so it has a purpose or desired effect?		
	<b>Unit 4: No timetabled computing</b>	<b>Unit 5: How can I create my own digital photomontage? How can I use green screen to create a presentation?</b>	<b>Unit 6: No timetabled computing</b>
		1/2. Can I capture a digital image of an emotion and store it? Who were the Expressionists? 3/4. Can I enhance my digital image using colour properties? How do artists convey emotion using colour? 5/6. Can I manipulate my image using photomontage techniques? Can I combine techniques and materials to convey emotion in my art?  1) What is green screen and how can I use it to present information or images? 2) What is a teleprompter and how does it help performers? 3+4) Can I perform using green screen? 5+6) How can I edit my video or image for effect?	
	<b>Unit 1: How can I use image editing software to adapt a digital image?</b>	<b>Unit 2: How can I be a successful gamer creator?</b>	<b>Unit 3: How can I use digital media to recreate artist's work? (Charles Keeping)</b>
<b>Year 5</b>	1) What is 2design and how do I use it? 2) How does moving points impact on my design? 3) How can I use a program (paint.net) to manipulate images? 4) How could I improve my image? What was successful?	1) How do apps access my data and are 'free apps' really free? 2) What makes a successful video game? 3) How can use a program to design a setting for my game? 4) How can I make characters perform actions within my game? 5) How can I make my game unique and accessible for other users? 6) How successful is my game? How can I improve it?	1) How can I use a program (paint.net) to manipulate images? 2) How could I improve my image? What was successful? Does my image create the desired effect?
	<b>Unit 1: Can I create my own program using 2code by building on previous skills?</b>	<b>Unit 5: No timetabled computing</b>	<b>Unit 6: Can I create my own database?</b>
	1) What is coding and how do I use 2Code? 2) How can I make an object repeat an action on a timer or indefinitely? 3) What code can I use to give selection or choice? 4) What is a variable in coding and what do they do? 5) How do you make a character respond to or repeat an action? 6) Can I use my coding skills to create my own program? Can I evaluate and debug my program so it has a purpose or desired effect?		1) How can I communicate safely online? 2) What are databases and how do I use them to search for information? 3+4) How can we sort information about ourselves in a class database? 5+6) How can I create my own database to answer questions about a topic?

	<b>Unit 1: Can I use paint.net to edit images? (A Monster Calls)</b>	<b>Unit 2: How are spreadsheets used in computing?</b>	<b>Unit 3: Can I create my own activist poster using digital images? Can I use repeated imagery to create a Warhol-inspired piece digitally?</b>
<b>Year 6</b>	1) How can I use a program (paint.net) to manipulate images? 2) How could I improve my image? What was successful?	1+2) What is a spreadsheet and what are they used for? How are spreadsheets used in real-life situations? 3+4+5) How can I use spreadsheets to show probability? How can I use a spreadsheet to convert measurements? How can I use a spreadsheet to present data on a line graph? 6) Can I create my own spreadsheet using computational thinking?	1) What are the features of an effective poster? 2) How can I use layers in paint.net to begin to create my poster? 3) How can I improve my poster using layers and colour? 4) How can I use paint.net to produce a repeating pattern? 5) How can I use paint.net to create a Warhol-inspired design? 6) How can I improve my Warhol inspired design?
	<b>Unit 4: How can I be safe online and how do my choices impact others?</b>	<b>Unit 5: What are networks and how do they help us?</b>	<b>Unit 6: How can I use 2code to create, debug and evaluate my own program?</b>
	1) What are the risks of mobile devices and how do they impact on your digital footprint? 2) How can my choices online impact myself or others? 3) What are the influences of technology on health, well-being and the environment?	How is the internet a network and how is it used in school? What are the future possibilities for the internet?	) What is coding and how do I use 2Code? 2) How can I make an object repeat an action on a timer or indefinitely? How can I use the repeat command? 3) What code can I use to give selection or choice? 4) What is a variable in coding and what do they do? 5/6) Can I use my coding skills to create my own program? Can I evaluate and debug my program so it has a purpose or desired effect?