

Key Stage 2

LEARNING PROGRESSION

Computer Scientists	CS1 A - I can explain how simple algorithms work and begin to spot errors by testing.	CS1 B - I can explain how simple algorithms work and spot errors by extensively testing.
	CS2 A - I can create and debug an algorithm using the move, rotate and repeat commands.	CS2 B - I can create and debug an algorithm using the move, rotate and repeat commands with the intention of meeting a specific goal.
	CS3 A - I can create and debug algorithms that draw regular polygons and patterns.	CS3 B - I can create and use variables to store relevant information.
	CS4 A - I can realise the importance of accurate instructions.	CS4 B - I can create a procedure to draw regular polygons or patterns using the skills of sequence, selection and repetition.
		CS5 B - I can apply my knowledge regarding accurate instructions to ensure algorithms function properly.
Creators.	C1 A - I can use basic computer skills e.g. save, open etc.	C1 B - I can keep my files organised with relevant filenames.
	C2 A - I can use the CTRL key to use key commands.	C2 B - I can edit and enhance images and text to make them more presentable.
	C3 A - I can edit text by changing case, aligning, using bullet points/ numbers.	C3 B - I can create a document/ presentation including images, word art etc.
	C4 A - I can insert and format text boxes.	C4 B I can arrange and layer objects including titles and backgrounds.
	C5 A - I can lay out a page effectively by inserting, ordering and grouping objects as well as formatting.	C5 B - I can use hyperlinks in my work to reference a reliable/saved page.
	C6 A - I can understand how a search engine works and how word order can effect search results.	C6 B - I can create and edit video footage and add titles, audio/soundtracks and transitions to make it presentable.
	C7 A - I can create a hyperlink to a reliable/saved page.	C7 B - I can collect, analyse and present data accurately.
	C8 A - I understand the principles of animation and create an animation using gradual frame changes.	C8 B - I can use timing on a presentation
	C9 A - I can present data effectively using a range of software.	
E-Safety	E1 A - I can understand that my accounts and passwords keep my information safe and private.	E1 B - I can create secure password using capital letters, numbers and symbols.
	E2 A - I can understand the term identity theft and know how to protect myself.	E2 B - I can understand what is meant by spam and how we should protect ourselves from it.
	E3 A - I can begin to understand what it means to be a good digital citizen.	E3 B - I can explain what to do if I am worried online and know about CEOPS.
	E4 A - I can understand the effect of cyberbullying and know what to do if I experience this.	E4 B - I can explain the SMART rules and give examples for each situations.
		E5 B - I can understand what it means to be a good digital citizen.
		E6 B - I can understand what it meant by plagiarism and the consequences of plagiarising.

KS2 - Computing

Cycle A					
	Romans Rule	Vicious Volcanoes	The Amazon	Climate Change	The Victorians
Curriculum Progression Code	C1A, C3A, C4A, C5A, C6A, C7A C1B, C2B, C3B, C4B, C5B E1A, E2B ,E6B	C9A C6B, C7B E4A	CS3A, CS4A CS4B C1A E1A, E2A	CS1A, CS2A, CS4A CS1B, CS2B, CS5B E4B	CS1A, CS2A, CS4A CS1B, CS2B, CS3B, CS5B C1B, C2B, C3B, C4B, C5B, C8B E3B, E6B
Significant Person	Bill Gates and Steve Jobs			Grace Hopper	
Vocabulary introduced/ embedded	Frame, Background, Play, CTRL keys, Bullet points, Layout, Hyperlink, Enhance, Presentable, Word art, Layer, Timing, Data. E-safety rules, Secure passwords, Citizens, CEOPS, Digital citizen, Gaming, Blogs, Plagiarism, Consequence	Data, Presentable, Layout E-Safety, consequence, Citizens	Algorithm, Errors, Rotate, Pattern, Polygon, Accurate, Relevant, Procedure, Repetition, Test + improve, Bug, Command, Control, Debug/Debugging. E-safety rules, Secure passwords, CEOPS, Digital citizen, Consequence	Algorithm, Errors, Rotate, Pattern, Polygon, Accurate, Specific, Variable, Relevant, Procedure, Repetition, Test + improve, Bug, Command, Control, Debug/Debugging, Properties, Selection, Timer E-safety rules, CEOPS, Digital citizen	Algorithm, Errors, Rotate, Pattern, Polygon, Accurate, Specific, Variable, Relevant, Procedure, Repetition, Test + improve, Bug, Command, Control, Debug/Debugging, Properties, Selection, Timer Frame, Background, Play, CTRL keys, Bullet points, Layout, Hyperlink, Enhance, Presentable, Word art, Layer, Timing, Data. E-safety rules, Citizens, CEOPS, Digital citizen, Plagiarism, Consequence
I know that/how to...	How to access a computers basic functions like opening, saving etc. How to edit text using the home ribbon on Word/Publisher. That bullet points and numbers can be used to make lists clearer. That special boxes can be added to hold text. That text boxes can be moved around unlike normal text. That text boxes can be formatted like pictures and writing. That objects can be grouped. How to group and ungroup. How to order layers of objects.	That data can be presented using lots of different programs. How present data using a digital device. That hyperlinks can be used to show where you found your information/research. That raw footage needs to be edited to get rid of mistakes and make it more presentable. That that there are lots of programs for editing videos.	That combining movement commands and repeats can allow you to draw shapes. That different shapes need different size rotations. That when instruction are unclear or inaccurate then unexpected things can happen. That a procedure is the name for a block of code that does a specific job. That procedures are created to reduce repetition of code. How to access a computers basic functions like opening, saving etc	How to read through algorithms line by line. How to spot errors by reading the code. How to read through algorithms line by line. How to spot errors by reading the code. That when instruction are unclear or inaccurate then unexpected things can happen.	How to read through algorithms line by line. How to spot errors by reading the code. How to read through algorithms line by line. How to spot errors by reading the code. That when instruction are unclear or inaccurate then unexpected things can happen.

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Cycle A					
	Romans Rule	Vicious Volcanoes	The Amazon	Climate Change	The Victorians
I know that/how to...	<p>That pages can look neat or messy depending on how you lay them out.</p> <p>That the best information isn't always first on search engines.</p> <p>That search engines look for key words in websites when searching.</p> <p>That websites can pay to appear higher on the list.</p> <p>That order words are written in the search engine can affect results.</p> <p>That you can name a file anything.</p> <p>That files should have relevant names.</p> <p>That files should be stored in relevant folders.</p> <p>How to rename a file or folder.</p> <p>That some computer programs can be used to edit photographs.</p> <p>How to edit photos for a purpose using relevant software.</p> <p>That multiple techniques can be combined to make a well structured document</p> <p>How to group and ungroup independently.</p> <p>How to order layers of objects for effect.</p> <p>That pages can look neat or messy depending on how you lay them out.</p> <p>That search engines have keywords to help them to search.</p> <p>How to search with key words e.g. Note and file type</p> <p>That search engines have key-words to help them to search.</p> <p>How to search with key words e.g. Note and file type</p>	<p>How to insert video clips.</p> <p>How to cut and trim video clips.</p> <p>That transitions mask the cut between 2 clips.</p> <p>How to add additional sounds to a video.</p> <p>How to export a video.</p> <p>That S stands for safe, M stands for meet, A stands for accept, R stands for Reliable and T stands for tell.</p> <p>How to apply these rules to real-life situations.</p>	<p>That a password keeps information safe and sharing the password is like giving away all of your information.</p> <p>That people can pretend to be other people online.</p> <p>That people can use my information to pretend to be me.</p> <p>That this can lead to serious problems if you don't realise in time.</p>	<p>How to read through algorithms line by line.</p> <p>How to spot errors by testing different parts of the code.</p> <p>That a repeat command can make code more efficient.</p> <p>How to build an efficient algorithm using repeats.</p> <p>How to break down a problem to make it more manageable</p> <p>How to apply all of the skills I have learned to create more complex algorithms.</p> <p>That S stands for safe, M stands for meet, A stands for accept, R stands for Reliable and T stands for tell.</p> <p>How to apply these rules to real-life situations.</p>	<p>How to read through algorithms line by line.</p> <p>How to spot errors by testing different parts of the code.</p> <p>That a repeat command can make code more efficient.</p> <p>How to build an efficient algorithm using repeats.</p> <p>How to break down a problem to make it more manageable.</p> <p>That variables can be used to store information.</p> <p>That variables need to be created by the programmer.</p> <p>That variables need relevant names.</p> <p>That variables can be edit and accessed later on in the code.</p> <p>How to apply all of the skills I have learned to create more complex algorithms</p> <p>That you can name a file anything.</p> <p>That files should have relevant names.</p> <p>That files should be stored in relevant folders.</p> <p>How to rename a file or folder.</p> <p>That some computer programs can be used to edit photographs.</p> <p>How to edit photos for a purpose using relevant software</p> <p>That multiple techniques can be combined to make a well structured document</p> <p>How to group and ungroup independently.</p> <p>How to order layers of objects for effect.</p> <p>That pages can look neat or messy depending on how you lay them out.</p> <p>That search engines have keywords to help them to search.</p>

KS2 - Computing

Cycle A					
	Romans Rule	Vicious Volcanoes	The Amazon	Climate Change	The Victorians
I know that/how to...	<p>That spam is a term for unwanted emails and messages.</p> <p>That spam can be and should be blocked.</p> <p>That spam can sometimes have viruses or misleading information.</p> <p>That information on the internet is owned by people.</p> <p>That even though information on the internet can be used to learn and give ideas, it can't be directly copied.</p> <p>That copying information without permission is called plagiarism.</p> <p>That plagiarism can your work disallowed or serious trouble with the law for adults.</p>				<p>How to search with key words e.g. Note and file type</p> <p>That data can be presented using lots of different programs.</p> <p>That different data is best presented in different ways.</p> <p>That you should go to a trusted adult if you have problems on the internet.</p> <p>That if you can't find a trusted adult you can go to CEOPs.</p> <p>That information on the internet is owned by people.</p> <p>That even though information on the internet can be used to learn and give ideas, it can't be directly copied.</p> <p>That copying information without permission is called plagiarism.</p> <p>That plagiarism can your work disallowed or serious trouble with the law for adults.</p>

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Cycle B					
	The Croods	The Potteries	Countries of the World	Ratatouille	The Wild, Wild West
Curriculum Progression Code	CS3A, CS4A, CS4B C1A, C3A, C4A, C5A, C6A, C7A, C1B, C2B, C3B, C4B, C5B E1A, E2A, E3A, E1B, E2B, E5B	C9A C7B E1B, E6B	CS1A, CS2A, CS4A, CS1B, CS2B, CS5B E3A, E5B	CS3A, CS4A C1A, C3A, C4A, C5A, C6A, C7A, C1B, C2B, C3B, C4B, C5B, C8B E4A, E2B	CS1A, CS2A, CS4A, CS1B, CS2B, CS3B, CS5B C8A, C6B, C7B E4A, E2B, E3B, E4B
Significant Person				Tim Berners-Lee and Mark Zuckerberg	
Vocabulary introduced/ embedded	Frame, Background, Play, CTRL keys, Bullet points, Layout, Hyperlink, Enhance, Presentable, Word art, Layer, Timing, Data. E-safety rules, Secure passwords, Citizens, CEOPS, Digital citizen, Gaming, Blogs, Plagiarism, Consequence	Data, Presentable, Layout E-Safety, consequence, Citizens	Algorithm, Errors, Rotate, Pattern, Polygon, Accurate, Relevant, Procedure, Repetition, Test + improve, Bug, Command, Control, Debug/Debugging. E-safety rules, Secure passwords, CEOPS, Digital citizen, Consequence	Algorithm, Errors, Rotate, Pattern, Polygon, Accurate, Specific, Variable, Relevant, Procedure, Repetition, Test + improve, Bug, Command, Control, Debug/Debugging, Properties, Selection, Timer E-safety rules, CEOPS, Digital citizen	Algorithm, Errors, Rotate, Pattern, Polygon, Accurate, Specific, Variable, Relevant, Procedure, Repetition, Test + improve, Bug, Command, Control, Debug/Debugging, Properties, Selection, Timer Frame, Background, Play, CTRL keys, Bullet points, Layout, Hyperlink, Enhance, Presentable, Word art, Layer, Timing, Data. E-safety rules, Citizens, CEOPS, Digital citizen, Plagiarism, Consequence
I know that/how to...	That combining movement commands and repeats can allow you to draw shapes. That different shapes need different size rotations. That when instruction are unclear or inaccurate then unexpected things can happen. That a procedure is the name for a block of code that does a specific job. That procedures are created to reduce repetition of code.	That data can be presented using lots of different programs. How present data using a digital device. That raw footage needs to be edited to get rid of mistakes and make it more presentable. That that there are lots of programs for editing videos. How to insert video clips. How to cut and trim video clips. That transitions mask the cut between 2 clips. How to add additional sounds to a video. How to export a video.	How to read through algorithms line by line. How to spot errors by reading the code. That a repeat command can make code more efficient. How to build an efficient algorithm using repeats. That when instruction are unclear or inaccurate then unexpected things can happen How to read through algorithms line by line. How to spot errors by testing different parts of the code.	That combining movement commands and repeats can allow you to draw shapes. That different shapes need different size rotations. That when instruction are unclear or inaccurate then unexpected things can happen. How to edit text using the home ribbon on Word/Publisher. That bullet points and numbers can be used to make lists clearer. That special boxes can be added to hold text. That text boxes can be moved around unlike normal text. That text boxes can be formatted like pictures and writing.	How to read through algorithms line by line. How to spot errors by reading the code. That a repeat command can make code more efficient. How to build an efficient algorithm using repeats. That when instruction are unclear or inaccurate then unexpected things can happen. How to read through algorithms line by line. How to spot errors by testing different parts of the code.

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Cycle B					
	The Croods	The Potteries	Countries of the World	Ratatouille	The Wild, Wild West
I know that/ how to...	<p>How to access a computers basic functions like opening, saving etc.</p> <p>How to edit text using the home ribbon on Word/Publisher.</p> <p>That bullet points and numbers can be used to make lists clearer.</p> <p>That special boxes can be added to hold text.</p> <p>That text boxes can be moved around unlike normal text.</p> <p>That text boxes can be formatted like pictures and writing.</p> <p>That objects can be grouped.</p> <p>How to group and ungroup.</p> <p>How to order layers of objects.</p> <p>That pages can look neat or messy depending on how you lay them out.</p> <p>That the best information isn't always first on search engines.</p> <p>That search engines look for key words in websites when searching.</p> <p>That websites can pay to appear higher on the list.</p> <p>That order words are written in the search engine can affect results.</p> <p>That hyperlinks direct you to a file or website.</p> <p>How to create hyper link.</p> <p>That you can name a file anything.</p> <p>That files should have relevant names.</p> <p>That files should be stored</p> <p>How to rename a file or folder.</p> <p>That some computer programs can be used to edit photographs.</p> <p>How to edit photos for a purpose using relevant software. in relevant folders.</p>	<p>That longer passwords with capitals, numbers and symbols are harder to guess.</p> <p>That passwords using these are harder to guess for hackers.</p> <p>That information on the internet is owned by people.</p> <p>That even though information on the internet can be used to learn and give ideas, it can't be directly copied.</p> <p>That copying information without permission is called plagiarism.</p> <p>That plagiarism can your work disallowed or serious trouble with the law for adults.</p>	<p>That a repeat command can make code more efficient.</p> <p>How to build an efficient algorithm using repeats.</p> <p>How to break down a problem to make it more manageable.</p> <p>How to apply all of the skills I have learned to create more complex algorithms.</p>	<p>That objects can be grouped.</p> <p>How to group and ungroup.</p> <p>How to order layers of objects.</p> <p>That pages can look neat or messy depending on how you lay them out.</p> <p>That the best information isn't always first on search engines.</p> <p>That search engines look for key words in websites when searching.</p> <p>That websites can pay to appear higher on the list.</p> <p>That order words are written in the search engine can affect results.</p> <p>That hyperlinks direct you to a file or website.</p> <p>How to create hyper link.</p> <p>That you can name a file anything.</p> <p>That files should have relevant names.</p> <p>That files should be stored in relevant folders.</p> <p>How to rename a file or folder.</p> <p>That some computer programs can be used to edit photographs.</p> <p>How to edit photos for a purpose using relevant software.</p> <p>That multiple techniques can be combined to make a well structured document.</p> <p>How to group and ungroup independently.</p> <p>How to order layers of objects for effect.</p> <p>That pages can look neat or messy depending on how you lay them out.</p> <p>That search engines have keywords to help them to search.</p> <p>How to search with key words e.g. Note and file type.</p> <p>That data can be presented using lots of different programs.</p> <p>That different data is best presented in different ways.</p>	<p>That a repeat command can make code more efficient.</p> <p>How to build an efficient algorithm using repeats.</p> <p>How to break down a problem to make it more manageable.</p> <p>That variables can be used to store information.</p> <p>That variables need to be created by the programmer.</p> <p>That variables need relevant names.</p> <p>That variables can be edit and accessed later on in the code.</p> <p>How to apply all of the skills I have learned to create more complex algorithms.</p> <p>That videos are a series of changing pictures called frames.</p> <p>That when we see a video we are seeing 24 frames per second.</p> <p>That small changed in the pictures give the illusion of movement.</p> <p>That hyperlinks can be used to show where you found your information/ research.</p> <p>That raw footage needs to be edited to get rid of mistakes and make it more presentable.</p> <p>That that there are lots of programs for editing videos.</p> <p>How to insert video clips.</p> <p>How to cut and trim video clips.</p> <p>That transitions mask the cut between 2 clips.</p> <p>How to add additional sounds to a video.</p> <p>How to export a video.</p>

KS2 - Computing

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