

Computing Progression Document	
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Strand: Computing Systems and Networks								
EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6		
Recognise technology that is used at home and in school. Understand what a computer is and the different uses of computers i.e. learning, communicating, finding information, playing games etc. Understand some ways to stay safe when using electronic devices and the internet (Education for a Connected World) https://czone.eastsussex.go v.uk/safeguarding/safeguar ding-in-schools-colleges- and-early-years- settings/education-for-a- connected-world- resources/	Explain that technology is something that can help us and give examples Identify examples of technology including a computer Recognise that choices are made when using technology Explain why rules are needed when using technology Choose a piece of technology to do a job and show how it can be used in different ways Identify the main parts of a computer Use a mouse in different ways Use a keyboard to type and edit text	Recognise different types of computers used in school as part of information technology Recognise the features of information technology Talk about the uses and benefits of information technology and understand how rules can help us make choices Describe some uses of computers Identify information technology in and beyond school Show how to use information technology safely	Describe what an input is and explain how a process acts in it Explain how a process produces an output and the effect of changing a process Recognise how computer systems can change the way we work Identify how devices in a network are connected with each other Explain how information is passed through multiple connections Identify the benefits of computer networks Identify input and output devices Explain how a computer network can be used to share information and the role of a switch, server and wireless access point Identify network devices around me	Describe how networks physically connect to other networks Explain how networked devices make up the internet Outline how websites can be shared via the worldwide web Describe how content can be added and accessed on the world wide web Recognise how content on the world wide web is created by people Evaluate the consequences of unreliable content	I can identify how to use a search engine I can describe how search engines select results I can explain how search results are ranked I can recognise why the order of results is important, and to whom I can recognise how we communicate using technology I can evaluate different methods of inline communication	I can explain how computers can be connected together to form systems I can recognise the role of computer systems in our lives I can recognise how information is transferred over the internet I can explain how sharing information online lets people in different places work together I can contribute to a shared project online I can evaluate different ways of working together online		
			connected to other networks					
END POINTS - EYFS	END POINTS	- YEARS 1 AND 2	END POINTS – YE	AKS 3 AND 4	END POINTS	6 – YEARS 5 AND 6		
To understand what a computer is including different types To suggest ways to use a computer safely	 Recognise different types of computers Recognise different hardware for computers Describe how computers can store information Suggest ways to use computers safely 		 Understand how computers are connected Identify input and output devices Describe how computers communicate over the internet. Recognise how information can be added to the world wide web. 		 Explain how computer networks are connected Explain how to search for information safely on the internet Understand how the internet is used for collaborative work 			



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trand: Creating Media A								
EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6		
Manage a device by	Recognise that a keyboard	Recognise that some digital	Explain that an animation is made	Identify that sound can be	I can explain what makes a	I can review an existing website		
correctly closing websites	is used to enter text into a	devise can capture images using	up of a sequence of images	recorded using an input device	video effective	and consider its structure		
or apps and safely turning	computer and use the	a camera		and played using an output				
on and off.	Shift key to change the		Identify that computing device	device	I can identify digital	I can plan the features of a		
	output of a key	Explain how to take a 'good'	needs to be in a fixed position		devices that can record	webpage		
Input commands using the		photograph and composition		Recognise that recorded audio	video			
space bar, backspace,	Recognise that text can be	choices including light	Recognise that smaller movements	can be stored on a computer		I can consider the ownership		
enter, letters and numbers	changed in appearance		create smoother animation	and be edited	I can capture video using a	and use of images (copyright)		
on a keyboard on any	and by editing	Recognise that photographs can			range of techniques			
device (including on a		be saved and viewed later	Explain the impact of adding other	Recognise that sound can be		I can recognise the need to		
tablet).	Consider the impact of		media to an animation	represented as a waveform	I can create a story board	preview pages		
	choices made	Identify how a photograph						
Input commands using a		could be improved	Explain that a project must be	Recognise that audio can be	I can identify how video	I can outline the need for a		
mouse to control a cursor	Use letter, number,		exported so it can be shared	layered to play multiple	can be improved through	navigation path		
and use the left click to	punctuation, special	Recognised that photographs		sounds	reshooting and editing			
select options OR use finger	characters and space keys	can be changed and are not	Plan an animation using a			I can recognise the implications		
control to interact with a	to enter text into a	always accurate	storyboard	Consider the results of editing	I can consider the impact	of linking to content owned by		
tablet (double tap, swipe)	computer			choices made	of choices made when	other people		
		Capture a clear digital image in	Capture an image using the onion		making an sharing a video			
Experience simple apps and	Select text	landscape and portrait, using	skinning tool and moving a subject	Record and play sound using a				
software and use these to		zoom and considering lighting	between captures	computer				
present ideas	Choose options to change							
	the appearance of text	View photographs on a digital	Review a captured sequence of	Import audio into a project				
		device and decide which to keep	frames and remove frames to					
	Position the text cursor		improve animation	Delete a section of audio				
	and use backspace to	Improve a photograph by						
	remove text	retaking it or using filters	Add media to enhance an	Change the volume of tracks in				
			animation and review the	a project				
	Use Undo		completed project					
	Explain and predict the							
	outcome of a command							
END POINTS - EYFS	END POINTS	S – YEARS 1 AND 2	END POINTS – YEARS 3 AND 4		END POINTS	6 – YEARS 5 AND 6		
How to turn the computer	- How to use specific a	apps to create content	 How to use specific apps to c 	reate content	 How to use specific a 	pps to create content		
on and off safely	 How to use a keyboa 	ard	 How to save projects safely 		 How to use a camera 	to capture video		
How to open and close apps	pps - How to edit the content and appearance of text		- How to review and edit proje	ects	 How to edit video an 	d add features such as titles		
securely	- How to capture images		- How to record sound		 Understand the type 	s of media which can be		
How to interact with	- How to edit images	-	- How to edit sound including	volume	displayed on a web r	bage		
computers using a variety					- How to add content	to a web page.		
of inputs such as mouse,					- How to create a 'bre	ad crumb tail' of web pages		
keyboard and touchscreen						and sharing tail of web pages		



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EYFS YEAR 1 YEAR 2 YEAR 3 YEAR 4 YEAR 5 YEAR 6	
Understand that a Describe a series of instructions Explain that programs start Identify a loop command in a I can control a simple I can define a 'variab	e' as
program is a set of as a sequence because of an input program and explain how it is circuit connected to a something that is ch	ngeable
commands that a used computer	
computer can run Explain what happens when we Identify that a program includes a I can explain why a v	riable is
Recall that a series of	
instructions can be issued Use logical reasoning to predict Explain how the order of loops	riable is
before they are enacted the outcome of a program commands can affect a program's used in a program	
output Justify when to use a loop and I can explain how a loop	
List which commands can Choose a series of words that when not to can stop when a condition I can choose how to	nprove a
be used on a given device can be enacted as a sequence Build a sequence of commands is met game by using variab	es
combined in a program Explain the important of	
Run a command on a floor Choose a series of instructions instruction order in a loop I can explain how a loop I can design a projection	that builds
robot that can be run as a program Order commands in a program can be used to repeatedly on given example	
Recognise that not all tools check whether a condition check whether a	croato a
that can be enacted as a playe written produce a given outcome to be run at once	lieale a
program	
Trace a sequence to make a List an everyday task as a set project that includes a I can evaluate my pr	ject
Choose a series of prediction and test the of instructions including selection	
commands that can be run prediction repetition	
as a program I can create a program	
Plan a program using indefinite that controls a physical	
Run a program on a device and count controlled loop to computing project	
produce a given outcome	
Lise tools to enable more than	
one process to be run at the	
same time	
END POINTS - EYFSEND POINTS - YEARS 1 AND 2END POINTS - YEARS 3 AND 4END POINTS - YEARS 5 AND 6	
- Describe a sequence of instructions as a sequence - Understand that a sequence is several commands in order Understand how to connect a circuit	
- Design a sequence of commands - Create a sequence of commands for a specific purpose Understand input and output	
- Run a sequence of commands - Begin to use loops in sequences - Use selection to produce a sequence with	ifferent
- Begin to debug a sequence of commands outcomes	
- Understand variables	avala a a
- Introduce a variety of variables into a gam	such as

derstand how to connect a circuit
derstand input and output
e selection to produce a sequence with different
tcomes
derstand variables



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trand: Data and Information								
EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6		
	Identify that objects can	Use a tally chart to collect data	Investigate questions with yes/no	Explain that data gathered	I can use a form to record	I can identify questions which		
	be counted	and suggest appropriate	answers and identify their	over time can be used to	information	can be answered using data		
		headings	attributes	answer questions				
	Recognise that				I can compare paper and	I can explain how objects can be		
	information can be	Compare objects that have been	Select an attribute to separate	Identify that sensors are input	computer-based	described using data		
	presented in different	grouped by attribute using	objects into 2 groups	devices use for data collection	databases			
	ways	comparative questions				l can explain how formulas can		
			Explain that a branching database	Explain how data logger	I can outline how grouping	be used to produce calculated		
	Identify some attributes of	Use a computer program to	is an tool used to identify objects	captures 'data points' from	and then sorting data	data		
	an object and choose one	present information in different	using fewer questions	sensors	allows us to answer	Lean annh fermulae ta data		
	to group objects by	ways	Suggest real world applications for	Lice a digital device to collect	questions	i can apply formulas to data,		
	Collect simple data and	Cive simple examples of why	branching databases	data at chosen automatic	I can avalain haw tools	including duplicating		
	show that it can be	some information should not be		intervals	can be used to select	Lean create a spreadsheet to		
	counted	some mornation should not be	Create questions with yes/no		specific data	nlan an event		
	counted	Shareu	answers	Use logged data to find		plan an event		
	Describe the properties of	Enter data onto a computer and		information	I can explain how	I can choose suitable ways to		
	an object	view it in different formats	Choose questions that will divide		computer programs can	present data		
		including pictograms	objects into equal subgroups	Use a computer program to	be used to compare data			
	Group objects to answer			sort data by one attribute	visually			
	questions and group by	Recognise that people, animals	Identify an object using a	,	,			
	similarities	and objects can be described	branching database	Export information in different	I can apply my knowledge			
		using attributes		formats	of a database to ask and			
	Describe a group of		Retrieve information from		answer real-world			
	objects	Use a computer to answer	different levels of a branching		questions			
		comparison questions (graphs,	database					
		tables)						
END POINTS - EYFS	END POINTS	S – YEARS 1 AND 2	END POINTS - YEARS 3 AND 4		END POINTS - YEARS 5 AND 6			
	- Collect simple data		- Ask questions to organise and	d sort data	- Use a computer to se	arch sort and filter data		
	- Group objects toget	per based on properties	- Use a computer to collect dat	ta	- Use a computer to e	nter data		
	- Enter data onto a co	muter	- Use a computer to collect data		- Apply simple formula	as to complete tasks		
	Line use onto a computer		- Use a computer to display da	ta in different ways	- Choose suitable way	s to present data		
	comparison		- Ose a computer to display data in different ways.		- Choose suitable ways to present data.			
	companion							



Strand: Creating Media B							
EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	
	Explain what different	Identify that computers can be	Recognise how text and images		I can identify that drawing	I can use a computer to create	
	freehand tools do	used to play sounds of different	convey information	Explain how digital images can	tools can be used to	and manipulate 3D digital	
		instruments		be changed for different	produce different	objects	
	Recognise computers can		Understand the difference	purposes	outcomes		
	be used to create art	Identify that the same pattern	between landscape and portrait			I can compare working digitally	
		can be represented in different		Recognise that not all images	I can create a vector	with 2D and 3D graphics	
	Recognise a tool can be	ways	Consider how different layouts can	are real	drawing by combining		
	adjusted to suit my need		suit different purposes		shapes	I can construct a digital 3D	
	and recognise its	Compare playing music on		Consider the impact of		model of a digital object	
	appropriate use	instruments with making music	Recognise that DTP pages can be	changed made on the quality	I can use tools to achieve a		
		on a computer	structured with placeholders	of an image	desired effect	I can identify that physical	
	Compare painting using a					objects can be broken down	
	computer with painting	Use a computer to experiment	Recognise how different font styles	Change the composition of an	I can recognise that vector	into a collection of 3D shapes	
	with brushes	with different sounds and create	and effects are used for different	image (arrange, crop and cut)	drawings consist of layers		
		a musical pattern	purposes			I can design a digital model by	
	Create a picture using			Apply a change globally to an	I can group objects to	combining 3D objects	
	freehand tools	Use a computer to compose a	Change page orientation	Image (adjust colours apply	make them easier to work		
		rhythm and a melody and play		filters, add effects)	with	I can develop and improve a	
	Use shape and line tools	them in different ways (eg.	Add and organise text and image			digital 3D model against design	
	for precision	tempo)	placenoiders	Apply changes locally to an	I can evaluate my drawing	criteria	
	Lice a range of colours and	Evaluate and improve a musical	Move resize and retate images	image (recouch and reuse)	by suggesting		
	the fill teel to colour and	Evaluate and improve a musical	wove, resize and rotate images	Make additions to an image	improvements and		
	onclosed area	computer	Edit toxt including choosing fonts	(draw, add toxt, add an	creating alternatives		
			and applying offects	(draw, add text, add an			
	Combine a range of tools						
	to create a piece of		Review a document				
	artwork						
END POINTS - EYFS	END POINTS	S – YEARS 1 AND 2	END POINTS – YE	ARS 3 AND 4	END POINTS	– YEARS 5 AND 6	

- Understand how to create publications using text and

- Understand how to edit text and images

- Use a variety of tools to edit images

- Understand the danger of fake images

Use a computer to import and save images

images.

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- Understand the computers can be used to create

Use a computer to experiment with sounds

- To evaluate and improve media using a computer

- Create artwork using a variety of tools

artwork

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END POINTS – YEARS 5 AND 6

- Add objects into a project

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Combine objects to make complex shapes

- Edit objects including size, shape and colour
- Plan, create and evaluate a final project.



trand: Programming B								
EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6		
	I can choose a command	I can explain that a sequence of	I can explain how a	I can develop the use of count-	I can explain how	I can create a program to run on		
	for a given purpose	commands has a start	sprite moves in an	controlled loops in a different	selection is used in	a controllable device		
			existing project	programming environment	computer programs			
	I can show that a series of	I can explain that a sequence of				I can explain that selection can		
	commands can be joined	commands has an outcome	I can create a program	I can explain that in	I can relate that a	control the flow of a program		
	together		to move a sprite in four	programming there are infinite	conditional statement			
		I can create a program using a	directions	loops and count-controlled	connects a condition to an	I can update a variable with a		
	I can identify the effect of	given design		loops	outcome	user input		
	changing a value	L can change a given design	a new context	I can dovelop a design that	I can ovalain how	l can uso an conditional		
	I can explain that each	i can change a given design		includes two or more loops	selection directs the flow	statement to compare a		
	sprite has its own	I can create a program using my	I can develop my	which run at the same time	of a program	variable to a value		
	instructions	own design	program by adding	which full at the suffic time				
			features	I can modify an infinite loop in	I can design a program	I can design a project that uses		
	I can design the parts of a	I can decide how my project can		a given program	that uses selection	inputs and outputs on a		
	project	be improved	I can identify and fix bugs in a			controllable device		
			program	I can design a project that	I can create a program			
	I can use my algorithm to			includes repetition	that uses selection	I can develop a program to use		
	create a program			I can create a project that		inputs and outputs on a		
				includes repetition	I can evaluate my program	controllable device		
END POINTS - EYFS	END POINTS	S – YEARS 1 AND 2	END POINTS – YE	ARS 3 AND 4	END POINTS	– YEARS 5 AND 6		
	- To create sequences	for a given purpose	- Add a range of features into a coding project		 Use selection to creation 	te different outcomes		
	 Create projects with 	several sequences	- Know how to move sprites w	ithin a project	 Use variables to creating 	te more complex sequences		
	 Design a project to n 	neet given criteria	- Design a project using loops.		 Use inputs and output 	uts on a controllable device		
	- Evaluate and debug a project.		- Use a different types of loops to suit different purposes		-			

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