

Cedar (EYFS Topics)

	Week 1	Week 2	Week 3	Week 4	Week 5			
a r	Computing through continuous provision							
Adve nt Term								
44 61		•	ystems and Networks 1: Using	•				
ent n 2	Learning about the main parts of a computer and how to use the keyboard and mouse. Learning how to log in and out.							
Advent Term 2	Keyboards Learning what a keyboard is and how to locate relevant keys	Logging in and out Learning to log in and out	Mouse Control Learning what a mouse is and developing control when using a mouse	Mouse control – clicking Developing basic mouse skills, including moving and clicking, and using an online paint tool	Mouse control – clicking and dragging Further developing mouse skills, to include the ability to click and drag			
1		Prog	ramming 1: All about instruct	tions				
٤		The children learn to receive and gi	ve instructions and understand the	importance of precise instructions.				
Lent Term	Following instructions The class follow instructions as part of practical activities and games	Giving simple instructions Children guide a partner through an obstacle course to develop an understanding of giving simple instructions	Dressing up instructions The children follow instructions as part of a dressing up game and learn to give simple instructions	Debugging instructions (washing hands) Children follow instructions as part of a practical handwashing activity and to learn to debug when things go wrong	Predictions Pupils learn that an algorithm is a set of instructions to carry out a task, in a specific order. They use logical reasoning to read simple instructions and predict the outcome			
7	Computing Systems and Networks 2: Exploring hardware							
	Tinkering and exploring with different computer hardware and learning to operate a camera.							
Lent Term	Exploring hardware tinker tray Pupils explore and tinker with different hardware and introduced to the relevant vocabulary	Real work tinker tray Children explore and tinker with hardware and identify where technology is used in places that they are familiar with, such as homes and school	Pictures of play Children learn to operate a basic camera to take photographs of their independent play	Picture walk Children further develop their photography skills, taking photos of their discoveries on a walk around the school grounds	Class photo album Working with an adult, children take selfie photographs to create a class gallery			
	Programming 2: Programming Bee-bots							
r st	Children learn about directions, experiment with programming a Bee-bot and tinker with hardware.							
Pentecost Term 1	Understanding arrows Children learn the meaning of directional arrows and follow a simple sequence of instructions	Introducing a Bee-bot Children experiment with programming a Bee- bot and tinker with hardware to develop familiarity and introduce relevant vocabulary	Simple Bee-bot programming Children experiment with programming a Bee- bot and learn how to give simple commands	Understanding algorithms Children follow an algorithm as part of an unplugged game and learn to debug instructions when things go wrong	Programming a Bee-bot Children experiment with programming a Bee- bot and learning how to give simple commands. The children learn how to debug with the help of an adult, when things go wrong			
st	Data Handling: Introduction to data							
cos 1 2	Children sort and categorise data and are introduced to branching databases and pictograms.							
Pentecost Term 2	Loose parts play Children sort and categorise objects	Sorting ourselves Children sort themselves into groups based upon given categories before undertaking this activity independently	Yes or no? Children respond to yes/no questions as an introduction to branching databases	Creating a branching database Children learn branching databased through physical sorting and categorising	Exploring pictograms Children learn to interpret a basic pictogram			



Sycamore (Year 2 Topics)

	Prior	Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5			
	Knowledge								
Advent Term 1	Computing systems and networks 1:	Computer Systems and Networks 1: What is a computer? Exploring what a computer is by identifying how inputs and outputs work and how computers are used in the wider world to design their own computerised invention.							
Ad Te	Using a computer (EYFSA2)	Computer parts To recognise the parts of a computer	Inputs To recognise how technology is controlled	Technology safari To recognise technology	Invention To create a design for an invention	Real world roleplay To understand the role of computers			
± 7	Programming 1: Algorithms			nming 1: Algorithms and de	<u> </u>				
Advent Term 2	unplugged (Y1A2)	Developing an understandi Dinosaur algorithm To decompose a game to predict the algorithms that are used	ng or; what algorithms are, now a Machine learning To understand that computers can use algorithms to make predictions (machine learning)	to program them and how they controlled the maze To plan algorithms that will solve problems	an be developed to be more effic Making maps To understand what abstraction is	Unplugged debugging To understand what debugging is			
_	Skills	Computer Systems and Networks 2: Word Processing							
Lent erm 1	Showcase: Rocket to the	Developing touch typing skills, learning keyboard shortcuts and simple editing tools.							
Lent Term 1	moon (Y1L1)	Getting to know the keyboard To begin to learn to touch type	Getting started with word processing To understand how to use a word processor	Newspaper writer To understand how to add images to a text document	Poetry book To create a poetry book using sources from the internet	Digital writer To create a digital piece of writing			
~	Programming 1: Algorithms	Programming 2: Programming ScratchJr (option 1 - using tablet devices) Exploring what 'blocks' do' by carrying out an informative cycle of predict > test > review. Programming a familiar story and make a musical instrument.							
Lent Term	and debugging	Exploring what 'blocks' do' Using ScratchJr	by carrying out an informative of Creating an animation	ycle of predict > test > review. Pr	ogramming a familiar story and m	The Three Little Pigs' algorithms			
Te	(Y2A2)	To explore a new application	To create an animation	To use characters as buttons	To follow an algorithm	To plan and use code to create an algorithm			
st .	Creating		Creating Media:	Stop Motion (option 1 – usi	ng tablet devices)				
Pentecost Term 1	media: Digital	Learning how to create simple animations from storyboarding creative ideas.							
	imagery (Y1P1)	What is animation? To understand what animation is	What is stop motion? To understand what stop motion animation is	My first animation To create a stop motion animation	Planning my project To plan my stop motion animation	Creating my project To create my stop motion animation			
Pentecost Term 2	Data handling:	Data Hallalling: International Space Station							
	Introduction to data	Learning how data is collected, used and displayed and the scientific learning of the conditions needed for plants and humans, to							
entec	(EYFSP2/Y1P2)	Homes in space	Space bag	SURVIVE. Warmer, colder	Experiments in space	Goldilocks planets			
Pe T		To understand how computers can help humans survive in space	To create a digital drawing of essential items for life in space	To understand the role of sensors on the	To create an algorithm for growing a plant in space	To interpret data			

Online Safety: Learning how to keep information safe and private online; who we should ask before sharing things online and how to give, or deny permission online.



Olive (Year 3 Topics)

	Prior	Week 1	Week 2	Week 3	Week 4	Week 5		
	Knowledge Computing	0		4. Niet d d. 15 - 1 - 1 - 1 - 1	-1 /1' 2 . NA' (1 Off	' 2C5\		
	systems and	Compu	•	1: Networks and the interne	• •	ice 365)		
ent n 1	networks 1: What	What's a network?	Learning what a network A file's journey	a is and how devices communicate A website's journey	e and share information. Routers	Understanding packets		
Advent Term 1	is a computer? (Y2A1)	To understand what a network is and understand our school network	To understand how information moves around a network and begin to recognise real world networks	To understand how the internet works and explain a website's journey	To explore the role of routers	To understand the role of packets		
t 2	Programming 2: ScratchJr		Prog	ramming: Programming: Sc	ratch			
ren m ((Y2L2)	Exploring the programme	Scratch, following the predict > 1	test > review cycle. Learning aboι	ut 'loops' and programming an ar	nimation, story and game.		
Advent Term 2	(1212)	Tinkering with Scratch To explore programming application	Using loops To use repetition (a loop) in a programme	Making an animation To programme an animation	Storytelling To programme a story	Programming a game To programme a game		
_	Computing systems and networks 2: Word		Computer Systems and N	etworks 2: Emailing (option	2 – Microsoft Office 365)			
Lent Term 1		Sending emails with attachments and understanding what cyberbullying is.						
t T	processing	Communicating with technology	Sending an email	Adding attachments	Be kind online	Fake emails		
Len	(Y2L1)	To understand how we communication with technology	To understand what emails are and how to send one	To know how to create an email with an attachment	To understand the importance of being kind online	To recognise when an email is not genuine		
2	Computing	Computer Systems and Networks 2: Journey inside a computer						
Lent erm 2	systems and networks 1: What	Assuming the role of computer parts and creating paper versions of computers to consolidate understanding of how a computer works.						
Lent Term 2	is a computer? (Y2A1)	Inputs and outputs To recognise basic inputs and outputs	Building a paper laptop To decompose a laptop	Following instructions To understand the purpose of computer parts	Computer memory To understand the purpose of computer parts	Dismantling a tablet To decompose a tablet computer		
)S	Creating media:	Creating Media: Video trailers (option 2 – using iPads)						
ecc m	Stop Motion (Y2P1)	Developing digital video skills to create trailers, with special effects and transitions.						
Pentecos t Term 1	,	Planning a book trailer To plan a book trailer	Filming To take photos or videos to tell a story	Editing the trailer To edit a video	Transitions and text To add text and transitions to a video	Video trailers To evaluate video editing		
يز	Data handling:	Data Handling: Comparison cards databases						
cos	International Space Station	Learning about records, files and data and sorting and filtering data.						
Pentecost Term 2	(Y2P2)	Records, fields and data To understand the terminology around databases	Race against the computer To compare paper and computerised databases	Sorting and filtering To sort, filter and interpret data	Representing data To represent data in different ways	Planning a holiday To sort data for a purpose		

Online Safety: Learning the difference between fact, opinion and belief; and how to deal with upsetting online content. Knowing how to protect personal information online.



Acacia and Willow (Year 4 Topics)

Programming: Scratch (Y3A2) Programming: Scratch (Y3A2) Programming: Scratch (Y3A2) Computing systems and networks: Collaborative learning (Y4A11) Creating media: website design (Y4A11) Creating media:	k 5	Week 5	Week 4	Week 3	Week 2	Week 1	Prior						
systems and networks 2: emailing (Y3L1) Programming: Scratch (Y3A2) Programming: Scratch (Y3A2) Computing systems and networks: Collaborative plants of the key features of Scratch (Y3A2) Computing systems and networks: Collaborative plants of the key features of Scratch (Y3A2) Computing systems and networks: Collaborative plants of the key features of Scratch (Y3A2) Computing systems and networks: Collaborative plants of the key features of Scratch (Y3A2) Computing systems and networks: Collaborative plants of the key features of Scratch (Y3A2) Computing systems and networks: Collaborative plants of Scratch (Y3A2) Computing systems and networks: Collaborative plants of Scratch (Y3A2) Computing systems and networks: Collaborative plants of Scratch (Y3A2) Computing systems and networks: Collaborative plants of Scratch (Y3A2) Computing systems and networks: Collaborative plants of Scratch (Y3A2) Computing systems and networks: Collaborative plants of Scratch (Y3A2) Computing systems and networks: Collaborative plants of Scratch (Y3A2) Computing systems and networks: Collaborative plants of Scratch (Y3A2) Computing systems and networks: Collaborative plants of Scratch (Y3A2) Computing systems and networks: Collaborative plants of Scratch plants of Scratch (Y3A2) Collaborative plants of Scratch (Y3A2) Creating Media: Website design (Y3A1) Creating media: website of Scratch (Y3A2) Creating media: website o		265)	ontion 2 Microsoft Office	les Collaborativo Loarning (nutar Custams and Naturar	Com							
Programming: Scratch (Y3A2) Programming: Scratch (Y3A2) Scratch reminder To recall the key features of Scratch by using decomposition to identify key learning systems and networks: Collaborative learning (Y4A1) Creating media: website design (Y4A1) Creating media: website design (Y4A1) Creating media: website design (Y4L1) Creating media: website design (Y4L1) Creating about the markup language behind a webpage; becoming familiar with HTML tags, changing HTML and CSS code to alter images and 'ren website. Programming 1: Programming 2: Programming 2: Programming 3: Programming 4: Programming 5: Programming 5: Programming 5: Programming 6: Programming 6: Programming 6: Programming 6: Programming 6: Programming 7: Programming 8: Programming 8: Programming 8: Programming 8: Programming 8: Programming 8: Program							systems and	# 4					
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Revisiting the key features and beginning to use 'variables' in code scripts. Revisiting the key features and beginning to use 'variables' in code scripts.	e data	To analyse data	To create and share a Microsoft Form	_	To understand how to contribute to			Ad					
Revisiting the key features and beginning to use 'variables' in code scripts. To recall the key features of Scratch Scratch reminder To recall the key features of Scratch To understand how a Scratch game works by using decomposition to identify key features To understand how a variable is and how to make one To understand how to make a variable in Scratch To understand how to make one To understand how to make a variable in Scratch To understand how to make a variable in Scratch To understand how to make a variable in Scratch To understand how to make a variable in Scratch To understand how to make a variable in Scratch To understand how to make a variable in Scratch To understand how to make a variable in Scratch To understand how to make a variable in Scratch To understand how to make a variable in Scratch To understand how to embed media and links. Computing systems and networks: Collaborative learning how web pages and sites are created and how to embed media and links. Getting to know Microsoft Sway To plan content for a collaborative webpage To plan and create a website To create an engaging webpage To plan and create a website To create and evalua webpage To plan and create a website To create and evalua webpage Skills Showcase: HTML website design (Y4L1) Website design (Y4L1) To understand and identify examples of To change HTML and CSS Website hacking To alter key elements including text and purpose To change the HTML and CSS to alter the appearance of an object on the web To understand and explore complex To alter key elements including text and purpose To change the HTML tags To change the HTML			2 – Microsoft Office 365)	coding with Scratch (option	Programming 1: Further								
Computing systems and networks: Collaborative learning (Y4A1) Creating Media: Website design (option 2 — Microsoft Office 365) Learning how web pages and sites are created and how to embed media and links. Getting to know Microsoft Sway To explore the features of Microsoft Sway (Y4A1) Creating media: website design (Y4L1) Creating media: To plan and create a website of the create and evalual of the create and evalual of the create and evalual of the create and how to embed media and links. Creating my website To plan and create a website of the create and evalual of the create and how to embed media and links. Creating my website To plan and create a website To plan and create a website To plan and create a website To create an engaging webpage To plan and create a website To plan and create a webs			bles' in code scripts.	atures and beginning to use 'varia	Revisiting the key fe			ent n 2					
Systems and networks: Collaborative learning (Y4A1) Creating media: Website design (Option 2 — Introduction to HTML To explore the features of Microsoft Sway (Y4A1) Creating media: Website design (Y4A1) Creating my webpage To plan content for a collaborative webpage To plan content for a collaborative webpage To plan content for a collaborative webpage To create an engaging webpage Skills Showcase: HTML Learning about the markup language behind a webpage; becoming familiar with HTML tags, changing HTML and CSS code to alter images and 'ren website. Introduction to HTML To understand and identify examples of HTML code for a specific purpose Programming 1: Programming 1: Description of the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page includ	now variables work	Times tables project To use knowledge of how variat to create a quiz	To understand how to make a variable in	To understand what a variable is and how	To understand how a Scratch game works by using decomposition to identify key		. ,	Adve					
Creating media: website design (Y4L1) Learning about the markup language behind a webpage; becoming familiar with HTML tags, changing HTML and CSS code to alter images and 'rem website. Introduction to HTML To understand and identify examples of HTML tags Programming 1: Remixing HTML Code for a specific purpose propose programming 2: Computational thinking Programming 1: Creating media: website design (Y4L1) Website hacking To understand and explore complex including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web pa			icrosoft Office 365)	ebsite design (option 2 – M	Creating Media: W			Ε					
Creating media: website design (Y4L1) Learning about the markup language behind a webpage; becoming familiar with HTML tags, changing HTML and CSS code to alter images and 'rem website. Introduction to HTML To understand and identify examples of HTML tags Programming 1: Remixing HTML Code for a specific purpose propose programming 2: Computational thinking Programming 1: Creating media: website design (Y4L1) Website hacking To understand and explore complex including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web page including text and appearance of an object on the web components of a web pa						systems and networks: Learn							
website design (Y4L1) Learning about the markup language behind a webpage; becoming familiar with HTML tags, changing HTML and CSS code to alter images and 'rem website. Introduction to HTML To understand and identify examples of HTML tags Programming 1: Programming 1: Website design (Y4L1) Learning about the markup language behind a webpage; becoming familiar with HTML tags, changing HTML and CSS code to alter images and 'rem website. Changing HTML and CSS To understand and explore complex To understand and explore complex To understand and explore complex To alter key elements of appearance of an object on the web components of a web page including text and the page including text		Creating my website To create and evaluate a we	3 ,		To plan content for a collaborative	,	Collaborative learning	Lent 1					
HTML tags purpose appearance of an object on the web components of a web page including text and programming 1:		Skills Showcase: HTML											
HTML tags purpose appearance of an object on the web components of a web page including text and Programming 1:	mix' a live	Learning about the markup language behind a webpage; becoming familiar with HTML tags, changing HTML and CSS code to alter images and 'remix' a live website.											
HTML tags purpose appearance of an object on the web components of a web page including text and Programming 1:	•	Replacing images	S S		S			ent					
Programming 1: Algorithms and debugging (Y2A2) What is computational thinking? Decomposition Abstraction and pattern recognition Abstraction and pattern recognition Abstraction and pattern recognition To understand what decomposition is and long to apply it to solve problems To understand what pattern recognition		To alter key elements on a we including text and image	· · ·	•		, ,		Ľ					
Algorithms and debugging (Y2A2) What is computational thinking? Output Decomposition Solving problems effectively using the four areas of abstraction, algorithm design, decomposition and pattern recognition. Abstraction and pattern recognition Abstraction and pattern recognition To understand what decomposition is and pattern recognition To understand what pattern recognition		į.	Programming 1: Programming 2: Computational thinking										
What is computational thinking? To understand that computational thinking To understand the tomputation is and is made up of four key strands What is computational thinking To understand what decomposition is and is made up of four key strands To understand what pattern recognition To understand what pattern recognition To understand how to create an algorithm To understand what pattern recognition To understand how to create an algorithm To understand how to create an algorithm To combine computation and abstraction mean								cos n 1					
is made up or rour key straints. How to apply it to solve problems. and abstraction mean allul what it can be used for to solve a pro-	ional thinking skills	Applying computational thi To combine computational thinl to solve a problem	o o		•			Pente					
Data handling: Data handling: Investigating weather (option 2 – Microsoft Office 365)	Data Handling: Investigating weather (option 2 – Microsoft Office 365)							ta					
Comparison cards databases Researching and storing data on spreadsheets and designing a weather station.								cos 1 2					
What's the weather? Weather stations Extreme weather Satellites and forecasts To design an automated machine to respond to sensor data What's the weather? To log data taken from online sources within a spreadsheet Weather station To design an automated machine to respond to sensor data Presenting for To design an automated machine to respond to sensor data To satellites and forecasts To design an automated machine to respond to sensor data To use tablets or digit present a weather	gital cameras to	Presenting forecasts To use tablets or digital came present a weather foreca	To design an automated machine to	To design an automated machine to		To log data taken from online sources		Pentecost Term 2					

Online Safety: Searching for information and making a judgement about the probable accuracy; recognising adverts and pop-ups; understanding that technology can be distracting.



Juniper (Year 5 Topics)

	Prior	Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5		
	Knowledge							
	Computing	Computer Systems and Networks: Search engines (option 2 – Microsoft Office 365)						
int 1	systems and networks:		Learning about how pag	ge rank works and how to identify	inaccurate information			
Advent Term 1	Collaborative learning (Y4A1)	Searching basics To understand what a search engine is and how to use it	Inaccurate information To be aware that not everything online is true	Web quest To search effectively	Information poster To create an informative poster	Web crawlers To understand how search engines work		
	Programming 1:		Programming	1: Programming music (opti	on 2 – Scratch)			
int 2	Further coding with Scratch	Building-on programming an		sounds, beats and melodies which	•	e of the Bands performance!		
Advent Term 2	(Y4A2)	Tinkering with Scratch music elements To tinker with Scratch music elements	Scratch soundtracks To create a program that plays themed music	Planning a soundtrack To plan a soundtrack program	Programming a soundtrack To program a soundtrack	Battle of the bands To program music for a specific purpose		
_	Data handling:		[Data Handling: Mars Rover	1			
err	investigating weather	Learning about the Mars Rover, exploring how and why it transfers data including instructions, and how messages can be sent using binary code.						
Lent Term 1	(Y4P2)	Mars Rover To identify how and why data is collected from space	Binary code To read and calculate numbers using binary code	Computer architecture To identify the computer architecture of the Mars Rovers	Using binary – numbers To use simple operations to calculate bit patterns	Using binary – text To represent binary as text		
erm	Programming music (Y5A2)	Programming 2: Micro:bit Creating algorithms and programs that are used in the real world. Using the 'predict, test and evaluate' cycle to create and debug programs with specific aims						
t Te		Tinkering with BBC Micro:bit	Programming an animation	Polling program	Programming a pedometer	Programming a scoreboard		
Lent Term 2		To tinker with a new piece of software	To program an animation	To recognise coding structures	To create a program for a specific task	To create a program		
یب	Creating media:		Creating Media: Stop	motion animation (option 1	– Stop motion studio)			
Pentecost Term 1	website design (Y4L1)	Creating animations, storyboard ideas and decomposing a story into small parts before putting together to create the illusion of a moving image.						
		Animation explored To understand what animation is	Exploring stop motion To understand what stop motion animation is	Planning my stop motion project To plan my stop motion video, thinking about the characters I want to use	Stop motion creation To create a stop motion animation	Editing my stop motion project To edit and assess my stop motion animation		
+	Data handling: Mars Rover 1 (Y5L1)	Skills showcase: Mars Rover 2						
cos		Exploring how the Mars rover: moves, follows instructions, collects and sends data; understanding how computers work, what data is and how it is transferred.						
Pentecost Term 2	(1322)	Pixels To understand how bit patterns represent images as pixels	Compressing images To explain how the data for digital images can be compressed	Fetch, decode, execute To identify and explain the 'fetch, decode, execute' cycle	Tinkering with CAD To create a safe online profile and tinker with 3D design software	TinkerCAD tutorials To modify the design of a 3D object using CAD software		
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Online Safety: Learning about app permissions; the positive and negative aspects of online communication; that online information is not always factual; how to deal with online bullying and managing our health and wellbeing.