

SK9 PRIMAR9 AND EDEN PROJECT NURSER9

Sky Computing Curriculum Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS			Lesson Starter or Time Togethe Managing online information. H		Lesson Starter or Time Togethe Privacy and security. Copyright	-
	 Online relationships. Assessment checkpoint: ✓ Recognise what it means to be 'online' and 'offline' ✓ Ask someone for help if something upsets them. ✓ Recognise how people might use the internet to communicate. 	 bullying. Assessment checkpoint: ✓ Identify ways I can put information on the internet. ✓ Describe how I feel when people are unkind. 	internet. ✓ Describe how to use information.	I can use to access the the internet to find ep us safe when using		ples of personal information irthday and who I can share pelongs to me.
	_	dy for our Sky treat?	Why do peng		What will we find on our grea	
		es to explore the seasons?	What food do we	0	Which tales from the seashore can we share? Computer Science – Summer Fun	
		- Awesome Autumn.	Computer Science	-		
	Early Years EN Barefoot Compu Assessment Checkpoint:	uting	Early Years EN Barefoot Compu	iting	Early Years EN Barefoot Compu	iting
	✓ Creating – making and using	their own ideas	Assessment Checkpoint: ✓ Logic – build on prior knowled	dge to form ideas	Assessment Checkpoint: ✓ Creating – making maps and t	talking about the positions of
	✓ Logic – build on prior knowle		 ✓ Pattern – Recognise similaritie 	5	objects on maps.	taiking about the positions of
	 ✓ Pattern – Recognise similariti 	0	✓ Abstraction – focus on what is		 Logic – build on prior knowled 	dge to form ideas.
	 ✓ Abstraction – focus on what i 		 Decomposition – break down 	•		organise items collected on a walk
	 Decomposition – break dowr 	n tasks into smaller parts.	 Algorithms – recognise a sequ 		and begin to represent as a pi	ictogram.
	 Algorithms – recognise a sequence 	uence of instructions.	 Debugging – find and fix error 	rs or bugs in a source.	 Abstraction – focus on what is 	
	Active Learning		Expressive Arts and Design		 Decomposition – break down 	•
		ences that you bring to their	-Return to and build on their previo	ous learning, refining ideas and	 Algorithms – recognise a sequ 	uence of instructions.
	attention.		developing their ability		Active Learning	
	Creating and thinking critically		to represent them.			nces that you bring to their
		s they try to achieve a goal.	Understanding the world	life, shows and feasily to bishe to	attention.	
	 Check how they are doi 	ing.	- Begin to make sense of their own	lite-story and family's history.	Understanding the world	

	Understanding the world - explore the natural world around them understanding the world. - Begin to understand the need to respect and care for the natural environment and all living things. - Understand the effect of changing seasons on the natural world around them.		Continue developing positive atti between people. Talk about members of their imm Comment on images of familiar s <u>Mathematics</u> Begin to describe a sequence of ev such as 'first', 'then'	nediate family and community. ituations in the past.	 Explore the natural world around them on a journey. <u>Communication and Language</u> Use talk to help solve problems. <u>Mathematics</u> Count objects, actions and sounds. Compare numbers 	
Year 1	 How can we be sky heroes? Lesson Starter or Time Together: Project evolve Self-image and identity. Online relationships Assessment checkpoint: ✓ Know the difference between online and real life. ✓ Recognise some online may try to hurt others. ✓ To speak to an adult if upset or embarrassed. ✓ Permissions to use the internet. ✓ Be kind and considerate. ✓ Know how to behave online. 	 Why do we tell stories? Lesson Starter or Time Together: Project Evolve Online relationships & Online bullying Assessment Checkpoint: ✓ Know the difference between online and real life. ✓ Recognise some online may try to hurt others. ✓ To speak to an adult if upset or embarrassed. ✓ Permissions to use the internet. ✓ Be kind and considerate. ✓ Know how to behave online. 	 What is it like to go on a Mystery Voyage? Lesson Starter or Time Together: Project Evolve Online reputation. Managing online information. Assessment Checkpoint: ✓ Know that items posted online will stay up and can be view by others. ✓ Understand that there are differences between 'made up' and 'real'. ✓ Know who to ask for help when something online worries you 	 Who is the giant of Sky? Lesson Starter or Time Together: Project Evolve Health, Well-being and Lifestyle. Copyright & Ownership Assessment Checkpoint: Know there are different settings for devices at home or in public places. Know what information should be shared online. <u>Connect</u> Understand online risks and the age rules for sites. 	 How can we be garden designers? Lesson Starter or Time Together: Project Evolve Privacy & Security Assessment Checkpoint: ✓ Explain how passwords are used to protect information, accounts and devices. ✓ Recognise examples of information that is personal to someone ✓ Explain why it is important to ask an adult before sharing personal information. 	Which animals are local to us? Lesson Starter or Time Together: Project Evolve Copyright & Ownership Assessment Checkpoint: ✓ Understand that online information can belong to a person.
	Information Technology (Teach Computing) Technology Around us: <u>Computing systems and</u> <u>networks – Technology</u> <u>around us</u> (teachcomputing.org) Assessment Checkpoint:	Coding: On the Move (Beebots) Bee-Bots Tinkering Activity Resources Barefoot Computing Bee-Bots 1, 2, 3 Programming Activity Barefoot Computing Assessment Checkpoint:	Coding: What are the start events? (Barefoot and D.A.R.E.S) Scratch Jnr code a start event, code to use a click event. ScratchJr Tinkering Activity Resources Barefoot Computing	Information Technology (Teach Computing) Creating Media: Digital Painting <u>Creating media – Digital</u> painting (teachcomputing.org) Recycling warriors painting: <u>Recycling</u> Warriors Resources	Computer Science & Information Technology: Barefoot – what is an algorithm and why are they useful? <u>Understand what</u> <u>algorithms are Barefoot</u> <u>Computing</u> Assessment Checkpoint:	Information Technology (Teach Computing): Grouping data: Data and information – Grouping data (teachcomputing.org) Assessment Checkpoint: ✓ Describe objects using labels and

	 ✓ Classify objects that are technology. ✓ Recognise and name different parts of the computer. ✓ Use a mouse in a controlled manner. ✓ Draw a picture using a mouse. ✓ Use a keyboard to type their name. ✓ Create rules on how to use a computer safely 	 ✓ Code objects to move. ✓ Code individual 'Click Events'. ✓ Code multiple 'Click Events' for multiple objects ✓ Vocab check – teacher check understanding of following technical language: coding, algorithm, object, action, 'Click Event'. 	 Assessment Checkpoint: ✓ Code a 'Start Event' to an object once the program begins. ✓ Know there are different types of input. ✓ Vocab check – teacher check understanding of following technical language: 'Start Events', 'Click Events' object, action, input 	 Barefoot (barefootcomputing.org) Assessment Checkpoint: Make marks on a digital canvas. Create their own digital art. Use a range of brush sizes and tools. Compare art on paper and computers. 	 ✓ Identify the key parts of a sequence. ✓ Create a precise set of instructions. ✓ Identify and explain patterns. ✓ To export a video from a device. ✓ Use animation and draw tools in an application. 	 match objects to groups ✓ Count and group objects ✓ Describe properties of objects ✓ Group properties of objects ✓ of objects
Year 2	What do I need to be healthy? Lesson Starter or Time Together: Project evolve self-image and identity. Online Relationships Assessment Checkpoint: ✓ explain how people act differently online to in person. ✓ give examples of who can help with online bullying.	 How did London adapt after the great fire? Lesson Starter or Time Together: Project evolve Online Relationships. Online Bullying Assessment Checkpoint: give examples of bullying in person and online. give examples of who can help with online bullying. Understand online risks and the age rules for sites 	 Why are bees brilliant? Lesson Starter or Time Together: Project evolve Online Reputation. Managing Online information. Assessment Checkpoint: ✓ Know that items posted online will stay up and can be view by others. ✓ Understand that there are differences between 'made up' and 'real'. ✓ Know there are different settings for devices at home or in public places. 	 How do our actions make a difference? Lesson Starter or Time Together: Project evolve Managing online information. Health, well- being and lifestyle Assessment Checkpoint: ✓ Know there are different settings for devices at home or in public places. ✓ Understand online risks and the age rules for sites ✓ Understand online risks and the age rules for sites 	 Where does Chocolate come from? Lesson Starter or Time Together: Project evolve Privacy and Security. Assessment Checkpoint: ✓ Know passwords are private as well as personal information. ✓ Explain the importance of keeping information private and give examples of who to speak to if they are unsure. 	Can we go on a seaside holiday journey through time? Lesson Starter or Time Together: Project evolve Copyright and ownership Assessment Checkpoint: ✓ Recognise that online content has an owner and is not free to use. ✓ Understand online risks and the age rules for sites.

	Information	Computer science	Coding: Barefoot	Information Technology	Computer Science:	Information Technology
	Technology (Teach	Programming:	Scratch Jnr Knock Knock	(Teach Computing)	Algorithms - Coding a	(Teach Computing)
	Computing):	Programming Quizzes:	joke	Creating Media: Digital	beebot to follow navigate	Creating Media: Digital
	IT Around Us	Programming B -	ScratchJr Knock Knock	Photography.	a route on a map.	Music
	(Computers and	programming quizzes	Joke Activity Barefoot	Key Stage 1	Barefoot Goes Wild	Creating media - Digital
	Systems)	(teachcomputing.org)	Computing	(teachcomputing.org)	Resources Barefoot	music
	Key Stage 1				Computing	(teachcomputing.org)
		Assessment Checkpoint:	Assessment Checkpoint:	Assessment Checkpoint:		Chrome Music Lab
	(teachcomputing.org)	 Know that a 	 Make a design using a 	✓ Know how we take	Assessment Checkpoint:	(chromeexperiments.com
		sequence can be	storyboard	digital photographs	 Understand what 	1
	Assessment Checkpoint:	started 'on click'	✓ Write a code	 Understand what 	algorithms are and	
	✓ Identify	and predict the	✓ Debug my code	makes a good	how they are	Assessment Checkpoint:
	examples of	outcome of the		photograph and	implemented as	✓ Manipulate sound
	computers and	sequence		retake ours when	programs on digital	and timings.
	technology in the	🗸 🛛 Run a simple		necessary	devices.	✓ Select sounds and
	classroom and	program start to		 Explore how to 	✓ Know there are	decide when they are
	beyond school	end		change the focus of a	different types of	heard.
	 Describe some 	✓ Create and		photograph.	input.	✓ Create a piece of
	uses of	program a quiz		 Edit photographs 	✓ Know that buttons in	digital music.
	computers and	to include a		after they have been	a program are also a	_
	understand that	question, two		taken using the	type of input.	
	this is a part of IT	sprites and an		technology tools	 Understand different 	
	 Sort IT by what 	action		5.	inputs means the	
	it's used for and	Evaluate our programmes			computer responds	
	where it's found.	and debug any coding.			with a different	
	 Identify how 	,			output.	
	rules keep me				✓ Able to fix errors in	
	safe with IT.				blocks of code.	
Vaar 2	How can we identify our	Who were the ancient	What will we learn on our	What did the Ancient	How does light help us to	What makes Cornwall
Year 3	native trees?	inhabitants of Cornwall?	rainforest adventures?	Egyptians live in harmony	see?	unique?
	Lesson Starter or Time	Lesson Starter or Time	Lesson Starter or Time	with nature?	Lesson Starter or Time	Lesson Starter or Time
	Together: Project evolve	Together: Project evolve	Together: Project evolve	Lesson Starter or Time	Together: Project evolve	Together: Project evolve
	Self image & identity.	Online Relationships.	Online reputation	Together: Project evolve	Privacy and security.	Copyright and ownership
	Online relationships	Online bullying.	Managing Online	Managing online	Copyright and ownership	copyright and ownership
	ennie relationships	Chine Marying.	Information	information. Health, well-	copyright and ownership	Assessment Checkpoint:
	Assessment Checkpoint:	Assessment Checkpoint:	Assessment Checkpoint:	being and lifestyle	Assessment Checkpoint:	 ✓ Explain why copying
	✓ Know what	✓ Know what	\checkmark Say what is ok to	being and mestyre	✓ Know why data is	other people's work
	information is ok to	information is ok to	share online.	Assessment Checkpoint:	kept private and how	from online is not fair.
	share online.	share online.	✓ Give examples of	\checkmark Know that there are	companies and	it offi offine is not fall.
		share online.	what people may or	differences between	devices store it.	
			what people may of	unterences between	uevices store it.	

	 Know that not everything online is a fact. Understand that websites gather personal information. Understand that technology isn't always a positive experience. 	 ✓ Know that not everything online is a fact. ✓ Understand that websites gather personal information. ✓ Understand that technology isn't always a positive experience. 	 may not be willing to share online ✓ Know that there are differences between a 'belief', 'opinion' and 'fact'. ✓ Know how website gather information online. 	 a 'belief', 'opinion' and 'fact'. ✓ Know how website gather information online. ✓ Understand the importance of age restrictions online 		
	nformation Technology	Computer Science &	Coding: (Kodu)	Information Technology	Coding: Events and	Information Technology
	(Teach computing):	Coding:	To create a 3D game using	(Teach computing):	actions in programs.	(Teach computing):
	Computing systems and	Fossil Formation	coding.	Stop-frame-animation	Programming B - Events	Desktop publishing
	networks – Connecting	animation and (Barefoot	Kodu Tinkering Activity	Creating media - Stop-	and actions in programs	Creating media – Desktop
	Computers.	& D.A.R.E.S)	Resources Barefoot	frame animation	(teachcomputing.org)	publishing
(Computing systems and	Fossil Formation	Computing	(teachcomputing.org)		(teachcomputing.org)
	networks – Connecting	Animation Resources			Y3B - L6 project remix on	
1	<u>computers</u>	Barefoot Computing	<u>Kodu Game Lab </u>	Planet Protectors	Scratch (mit.edu)	Assessment Checkpoint:
!	(teachcomputing.org)		<u>KoduGameLab</u>	Resources Barefoot		✓ Recognise that
		<u>Scratch - Imagine,</u>		(barefootcomputing.org)	Assessment Checkpoint:	text and images
1	Assessment Checkpoint:	<u>Program, Share (mit.edu)</u>	Assessment Checkpoint:		 To move a sprite 	can
•	 Explain that digital 		✓ To independently	Assessment Checkpoint:	in four directions	communicate
	devices accept inputs	Assessment Checkpoint:	tinker with a pre-	 Explain that 	(up, down, left	messages clearly.
	and produce outputs.	✓ To write a program	made game and	animation is a	and right).	✓ Change font
•	 Describe parts of a 	with a sequence of	develop an	sequence of	✓ To move within	style, size and
	simple process.	instructions.	understanding of how	drawings or	the context of a	colour of text.
	 Compare digital and 	✓ To understand how to	the programming	photographs.	maze.	✓ Recognise
	non-digital tools and	correctly sequence an	works.	✓ Relate animated	✓ To begin to use	placeholders and
	their processes. ✓ Explain how networks	algorithm. ✓ To understand the	✓ To build a terrain and nonulate it with	movement with a	pen blocks. ✓ To draw lines	the orientation
			populate it with characters and props.	sequence of		of a page using
	join devices together across a school, town,	importance of a	 ✓ To use tiles to 	images. ✓ Plan an	with sprites and change the size	templates for a
	country and the	correctly sequence algorithm and code.	program a game.	 Plan an animation. 	and colour of	purpose. ✓ Choose the best
	world.	✓ To debug our coding.	 ✓ behaviours and game 	✓ Review a	their lines.	locations for
	world.	 ✓ To evaluate our 	rules.	sequence of	✓ To design, code	content including
		sequence.	 Pupils test and debug 	frames to check	and evaluate	text and images
		✓ Condition means	their games in Kodu.	their work.	their own maze	to create a
		something needs to	 ✓ Pupils can evaluate 		tracing program.	magazine cover.

		 be true for the action to happen. ✓ Use 'if' or 'when' can specify a trigger. ✓ This is known as 'selection'. ✓ Vocab check – teacher check understanding of following technical language: condition, selection, trigger, action, 'Timer Event'. 		 ✓ Improve their animation based on feedback. ✓ Evaluate the impact of adding other media to an animation. 		✓ Identify uses of desktop publishing in the real world as well as matching layouts to purposes.
Year 4	What can we learn from the Ancient Greeks? Lesson Starter or Time Together: Project evolve Self-image and identity. Online relationships. Assessment Checkpoint: ✓ Describe identities on and offline ✓ Describe respectful behaviour online.	 What is it like to live in modern Greece? Lesson Starter or Time Together: Project evolve Online relationships. Online Bullying Assessment Checkpoint: ✓ Understand how content can affect other people and their feelings. ✓ Recognise that people can get upset by online content. ✓ Know who to speak to if someone is upset online or about online content 	 Why did the Romans invade and how did they defend Britain? Lesson Starter or Time Together: Project evolve Online reputation. Managing online information. Assessment Checkpoint: ✓ Know that information about people online can be searched, created and copied by others. ✓ Search online to find accurate and reliable information. 	 What makes the Earth explode? Lesson Starter or Time Together: Project evolve Managing online information. Health, wellbeing and lifestyle. Assessment Checkpoint: ✓ Search online to find accurate and reliable information. ✓ Explain there are positive and negative effects of technology on health and wellbeing 	 Where does energy come from? Lesson Starter or Time Together: Project evolve Privacy and security. Assessment Checkpoint: ✓ Know that internet services need consent to store data. ✓ Explain what digital consent is. 	 From Source to Sea: What journey does a river take? Lesson Starter or Time Together: Project evolve Copyright and ownership. Assessment Checkpoint: ✓ Explain what digital consent is. ✓ Understand that material on the internet has ownership and is not always free to use. ✓ Understand the term 'copyright'.
	Information Technology (Teach Computing): Computer network and systems: The Internet	Coding – Repetition: Shapes and Crystal Flowers.	Information Technology (Teach Computing): Creating Media: Audio Production.	Computer Science: Programming outputs, inputs, control –	Information Technology (Teach Computing): Creating Media – Photo editing.	Computer Science: Data Dash. Data Dash Resources Barefoot Computing

	Computing systems and	Shapes & Crystal Flowers	Creating media - Audio	Classroom sound	<u>Creating media – Photo</u>	
	<u>networks – The Internet</u>	Repetition Barefoot	production	monitor.	editing	Assessment Checkpoint:
	(teachcomputing.org)	Computing	(teachcomputing.org)	Classroom Sound	(teachcomputing.org)	 Know a data
				Monitor Resources		attribute is a
	Assessment Checkpoint:	Assessment Checkpoint:	Assessment Checkpoint:	Barefoot Computing	Assessment Checkpoint:	feature or
	 Appreciate the 	 Understand the 	 To identify the 		 Understand how 	property of
	internet as a	concept of	input device	Assessment Checkpoint:	digital images	something.
	network of	repetition.	(microphone)	 To understand 	can be changed	✓ Know a data
	networks that	 Explore the 	and output	that sound	and edited.	value is a value
	needs to be kept	benefit of	devices (speaker	monitors are	 Understand how 	collected for a
	secure.	repetition	or headphones)	examples of	digital images	data attribute.
	 Understand the 	commands.	required to work	control	can be resaved	 Select and use
	World Wide Web	✓ Code a repeat	sound digitally.	programs.	and reused.	data values and
	(WWW) is part of	command in a	 Consider the 	 To Know that 	 Consider the 	attributes to
	the internet.	program to draw	ownership of	control programs	impact editing	work out the
	 Explore the 	shapes and	digital audio and	take information	images can have.	answers to
	WWW to learn	create crystal	copyright	from an input	 Evaluate the 	questions.
	who owns	flowers.	implications.	sensor	effectiveness of	 Identify which
	content, what	 Explain what my 	✓ Edit, save and	(microphone)	their choices.	data attributes
	they can access,	repeat	evaluate their	and use this		are required to
	create and add.	commands do.	work.	information to		answer a
	 Evaluate online 	✓ Debug our	✓ Produce a	alter the output		question.
	content and	programs when	podcast	of the program		✓ Construct a
	decide how	required.		(warning		recording table
	honest, accurate			message when		
	or reliable it is.			too noisy).		
				To write and		
				create a control		
				program.		
Year 5	What was the impact of	How did trade get global?	What can we learn from	How can we protect our	How were our white	How can we ensure our
	invaders and settlers?	Lesson Starter or Time	the solar system and	local wildlife?	pyramids created?	oceans stay amazing?
	Lesson Starter or Time	Together: Project evolve	stars?	Lesson Starter or Time	Lesson Starter or Time	Lesson Starter or Time
	Together: Project evolve	Online relationships.	Lesson Starter or Time	Together: Project evolve	Together: Project evolve	Together: Project evolve
	Self-image and Identity.	Online bullying.	Together: Project evolve	Managing online	Health, wellbeing and	Privacy and security.
	Online relationships.		Online reputation.	information.	lifestyle.	Copyright and ownership.
		Assessment Checkpoint:	Managing online			
	Assessment Checkpoint:	 Explain and give 	information.	Assessment Checkpoint:	Assessment Checkpoint:	Assessment Checkpoint:
	 Explain online 	example of		✓ Know the benefits	✓ Find different ways	✓ That apps have
	identities and	responsible	Assessment Checkpoint:	and limitations of	technology can	permissions and they
	how there can be	online behaviour	✓ That there are ways	using online searches	improve or be a	read our device's
	online identity	including in	to search about	including voice.	detriment to our	data.
	fraud.		individuals online and			

	 ✓ Explain and give example of responsible online behaviour including in online communities. ✓ Recognise online communities. 	 online communities. ✓ Recognise online communities. ✓ Recognise poor online behaviour and know who can help if they or other people feel uncomfortable. 	 this may create a 'false' perspective of them. ✓ Know the benefits and limitations of using online searches including voice. ✓ Have an understanding of how content can be 'boosted' or 'promoted' by companies, vloggers and influencers. ✓ Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems 	 ✓ Understand how content can be 'boosted' or 'promoted' by companies, vloggers and influencers. ✓ Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems 	 health and well- being. ✓ How some apps or games request payments. 	 Assess and justify when to use other's work. Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems. Understand and demonstrate knowledge that it is illegal to download copyrighted material, including music or games, without express written permission, from the copyright holder. Understand the effect of online comments and show responsibility and sensitivity when online.
-	Information Technology	Coding:	Computer Science &	Information Technology	Computer Science: Use	Information Technology
	(Teach Computing):	Variables – Maths Quiz	Coding:	(Teach Computing):	understanding of	(Teach Computing):
	Computing systems and	Variables.	Solar system simulation.	Creating Media – Video	sequences to predict	Creating Media:
	networks – systems and	Maths Quiz Variables	Solar System Simulation	production.	what a programme will	Introduction to vector
	searching.	Resources Barefoot	Resources Barefoot	Creating media - Video	do:	graphics.
	Computing systems and	Computing	Computing	production	World Map Logic Activity.	Creating media -
	networks - systems and			(teachcomputing.org)	World Map Logic Activity	Introduction to vector
	searching	Assessment Checkpoint:	Assessment Checkpoint:	Climate Crisis Video	Resources Barefoot	graphics
	(teachcomputing.org)	 Explain how variables 	 Understand the 	Power Savers Resources	Computing	(teachcomputing.org)
	Assessment Chashing inte	are useful for more	term abstraction.	Barefoot		Assessment Chasters inte
	Assessment Checkpoint: ✓ Understand how	than just keeping	✓ Recognise sequences and	(barefootcomputing.org)	Assessment Checkpoint: ✓ Pupils identify	Assessment Checkpoint: ✓ Identify that
	 Understand now information is 	track of time or tallying a score.	sequences and patterns.	Assessment Checkpoint:	 Pupils identify the sequence of 	 Identify that drawing tools can
	transferred	 ✓ Know that variables 	✓ Understand what	\checkmark Explain what	steps and what	be used to
	between systems	can be combined with	simulation is.	makes a video	they do.	produce different

	 ✓ Consider small-scale and large-scale systems. ✓ Explain the input, output and process aspects of a variety of different real-world systems. ✓ Understand how information is found on the WWW by understanding how search engines work and what influences searching. 	 and can also be used to create Boolean expressions. ✓ Vocab check – teacher check understanding of following technical language: random numbers, range, coordinates, 'hit events', values. ✓ Know that Boolean expressions are like 'true or false' type questions that you can ask the computer. ✓ Choose the most suitable applications and devices for the purposes of communication. ✓ Collaborate with others online on sites approved and moderated by 	 ✓ Write a code to create a simulation. ✓ Debug a simulation program. 	 ✓ Use a digital device to record a video. ✓ Capture video using a range of techniques. ✓ Create a storyboard. ✓ Reshoot and edit video footage to improve it. ✓ Evaluate our videos and share opinions. 	 ✓ Predict what the program will do. ✓ Explain why you think this. ✓ Create and debug a simple program. 	 Create a vector drawing by combining different shapes. Use tools to achieve a desired effect. Recognise that vector drawings consist of layers. Group objects to make them easier to work with. Create a vector drawing for a specific purpose and compare with freehand drawings.
Year 6	How do the Innuit of the arctic live with nature?	teachers. How does light travel? Lesson Starter or Time	How will we rise to the challenge of climate	What can we learn from life on the home front?	The Cornish emigration: why did they leave and	What will make me a great leader?
	Lesson Starter or Time Together: Project evolve	Together: Project evolve Online bullying. Online	change? Lesson Starter or Time	Lesson Starter or Time Together: Project evolve	where did they go? Lesson Starter or Time	Lesson Starter or Time Together: Project evolve
	Self-image and identity. Online relationships.	reputation.	Together: Project evolve Managing online	Managing online information.	Together: Project evolve Health, wellbeing and	privacy and security. Copyright and ownership.
	Assessment Checkpoint:	Assessment Checkpoint: ✓ What to do if	information.	Assessment Checkpoint:	lifestyle. Privacy and security.	Assessment Checkpoint:
	✓ Know who can	they feel	Assessment Checkpoint:	✓ define terms		✓ Explain the
	help with problems online.	threatened online.	 ✓ define terms "influence, 	"influence, manipulation and	Assessment Checkpoint: ✓ Understand common	importance of copyright.
	✓ How best to	✓ Why online	manipulation and	persuasion".	systems that regulate	 ✓ Give examples of the
	support	relationships can	persuasion".	 ✓ Analyse and evaluate 	age-related content.	risks of online
	themselves and others in tricky	be dangerous and how to stay	 ✓ Analyse and evaluate the validity of facts. 	the validity of facts.✓ Understand the	 ✓ Identify strategies to limit the impact of 	communities and demonstrate
	situations online.	safe.	the validity of facts.	difference between	technology on health.	knowledge of how to

prepared of the r conflict online. onlir com dem know how risk a prob ✓ Unde effec com show resp and s	Immunities and emonstratemisinformation.Immunities and emonstrate✓Give examples of the risks of online communities and demonstrate k and reportImage: Sk and report oblems.✓Give examples of the risks of online demonstrate k nowledge of how to minimise risk and report problems.Image: Sk and report oblems.✓Image: Sk and report problems.Image: Sk and report oblems.✓✓Image: Sk and report oblems.✓Image: Sk and report problems.Image: Sk and report problems.✓✓	 disinformation and misinformation. Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems. Understand the effect of online comments and show responsibility and sensitivity when online. Know that there are ways to manage passwords and that there are people online who want to gather data. 	 minimise risk and report problems. ✓ Understand and demonstrate knowledge that it is illegal to download copyrighted material, including music or games, without express written permission, from the copyright holder.
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Information Technology	Information Technology	Computer Science:	Information Technology	Assessment: Make a	Computer Science:
(Teach Computing):	(Teach Computing):	Programming.	(Teach Computing):	game project.	Micro bit litter hunt.
Computing systems and	Data and spreadsheets.	Bug in the water cycle:	Computer History and	(Pupils design and create	UKS2 Barefoot meets
networks –	Data and information -	Debugging.	creating media:	their own games with	micro:bit - Litter Hunt
communication and	Introduction to	Bug in the Water Cycle	Code Cracking – Cyber	backgrounds and a main	(barefootcomputing.org)
collaboration.	Spreadsheets	Resources Barefoot	Data.	character).	And Information
Computing systems and	(teachcomputing.org)	Computing	Creating a video.	Make a Game Project	Technology (Teach
<u>networks -</u>			Code Cracking	Resources Barefoot	Computing):
Communication and	Pizza Party Resources	Assessment Checkpoint:	Resources Barefoot	Computing	Using the micro bit
<u>collaboration</u>	Barefoot Computing	✓ To test an algorithm	Computing		Using the microbit for
(teachcomputing.org)		and find solutions.		Assessment Checkpoint:	primary to secondary
	Assessment Checkpoint:	 Recognise a coding 	Assessment Checkpoint:	✓ Decompose a game	transition
Assessment Checkpoint:	✓ To create a data set	condition.	✓ Become WW2 code	into its parts.	(teachcomputing.org)
✓ Explain the	in a spreadsheet.	 Explain the 	crackers to help allied	✓ Design a game.	
importance of an	✓ To build a data set in	importance of	soldiers locate the	✓ Create the artwork	Assessment Checkpoint:
internet address.	a spreadsheet.	abstraction.	enemy.	for a game.	✓ Understand how
✓ Recognise how data is	 Explain that formulas 	✓ Use logical reasoning	✓ Collaborate to learn	✓ Write and debug a	variables and inputs
transferred across the	can be used to	to debug a program.	about Alan Turing and	game.	can be used on the
internet.	produce calculated	 Explain the bugs they 	how he cracked the	✓ Present a game.	micro bit to create a
 Explain how sharing 	data.	found, why they are	Enigma code.	✓ Evaluate the game.	counter.
information online	✓ Apply formulas to	bugs and how they	✓ Create a story board	_	✓ Create an algorithm
can help people to	data.	corrected them.	and plan their own		for a counter.
work together.	✓ Create a spreadsheet		movie about code		✓ Code, run and
✓ Evaluate different	to plan an event.		crackers.		evaluate the use of
ways of working	✓ Choose suitable ways		 Pupils use video 		the micro bit for
together online.	to present data.		software and		counting activities.
✓ Recognise how we	-		equipment to create		✓ Debug programs to
communicate using			their own movie.		accomplish specific
technology.			✓ Pupils film and edit		goals.
ς,			their movie.		✓ Use sequence,
			✓ Pupils present their		selection and
	,		work to their peers		repetition in
	,		and evaluate it.		programs.