



Implementation Overview

Our fully adaptable, collated Computing curriculum is broad but balanced; ambitious, yet understands the needs of a busy classroom and full teaching week. Materials are made available through the <u>DLCornwall site</u> in a way that provides a simple and accessible route through for teachers. Our **READ FIRST** one-page documents 'cut to the chase' for busy teachers, explaining how to interpret the materials to provide inspiring yet accessible sessions. Schools need to make the most suitable, practical choices, using the hardware and software at their disposal - you will notice within the Easy Access documents that we often suggest alternative options for simpler access and better experiences for both teachers and children.

We suggest that cross-curicular teaching, when possible and appropriate, is vital for bringing subjects to life; for making links to real world practice; for inspiring children; and for making such a busy and full curriculum possible. It is vital that teachers take ownership of the materials to direct progression themselves; that they pick, choose and adapt teaching elements and sequences to work best for individual classes of children and the timetabling restraints that exist. Audio-themed lessons may fit into music, animation can work alongside another's subject theme or topic; written or graphics work can fulfil the needs of another subject.

Furthermore, we know that flexibility in when and how to deliver lessons is key to success within a teacher's exact school and class circumstances. For particular units of work, it may be better to block out afternoons to devote to Computing, or thinking in cross-curricular terms it may be better for the subject to filter across different subject areas. While we do everything we can to strip away the complexity that has thwarted teachers in the past with this subject, Computing can involve equipment and preparation time – being well-prepared for sessions needn't take a lot of time, and may result in much smoother sessions.



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Key teaching principles to provide variety and breadth of experience

It's important to recognise that Computing is a vastly broad subject, and different areas of learning will be enhanced by employing different pedagogical approaches. Variety is the key to keeping this subject alive and interesting while presentations and 'teacher talk' can have their place, Computing has the potential to be one of the most explorative, creative and interesting subject areas that children will encounter at school. Computing is a chance for children to thrive within very hands-on creative tools, and learning that relates directly to the modern world.

Keeping a Computing Journal

As referred to in the guidance on Impact, allocating an area of a class book available for written, design and/or sketch work can be beneficial to children's learning process and provides a good location for recall purposes. There is great variety in this area, from storyboards to flow diagrams to printed eBooks, and it all allows for a fuller picture of Computing's influence in the classroom to be built.

PRIMM

PRIMM was established by an educational researcher, Sue Sentance, in 2017. It stands for **Predict-Run-Investigate-Modify-Check**, and provides a structured process for teachers and children exploring and learning how code works. The different aspects of PRIMM can be really useful for teachers to have in the mind as they deliver Computer Science lessons to classes of children.

The approach runs in stark contrast to a linear, step-by-step process of building code – with PRIMM, children are given finished code to look at initially; to discuss, explain and **Predict** how it will work. It allows children access to code quickly, and promotes understanding rather than simply following step by step instructions. After **Predict**, which could take place as a whole class discussion, the code is **Run** – so that children can see if their predictions were correct.

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Naturally there is some excitement in children finding out if their predictions are correct. This can then lead to **Investigate**: children look at code in further detail to work out how different parts of it work. When children start to carefully **Modify** the code, they further understand how different aspects of it work, and children might take things further with Make: using modified code for their own purposes.

At primary level, it's important to understand that any parts of the process of PRIMM can be taken out and used by themselves quite effectively. There is nothing to stop parts of the process being completed in whole-class discussion, or as quick extra activities to bring children back up to speed and recap on previously learnt coding knowledge.

Unplugged

We believe that there are many advantages to pursuing 'unplugged' activities as much as possible, particularly within the early years and KS1 – where classrooms often act as a well-needed sanctuary away from the bombardment of screen-based activities elsewhere in children's lives. Unplugged activities carry inherent advantages in terms of teacher's perceptions, resource reliability, and practicalities in a classroom. When understanding networks or how computers have infiltrated modern life, so much can be gained away from screens themselves, with discussion, pencil/paper work and design becoming key parts of focused learning. Fun, kinaesthetic activities such as, for example, the use of coloured floor tiles with young children, allow children to explore direction as they build algorithms and improve special awareness.



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Stories and Discussion

Computing can be brought to life, especially for the youngest children, through stories around internet safety and discussing the usage of technology in everyday life. All children of primary age are keen to discuss the technology they have experienced both inside and outside of school. Such discussions can further knowledge and understanding, and set the scene for the relevance of further learning.

Embedding in Creative Processes and Business links

Children thrive when online, digital tools are embedded into creative projects, and/or the design of products and services that relate heavily to real world opportunities, such as business plans and technology-infused ventures. Giving Computing grounding in action outside All areas of the country have tech and businesses communities that are often keen to forge links with schools to promote relevant knowledge and skills.

Linking to Maths

Whether its directional motion, programming the creation of shapes, or following logical processes, computer science and information technology often make significant links with maths learning. Data focused learning around pictograms, databases or spreadsheets also provide scope to work in a cross-curricular fashion with maths learning.



	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computer Science: Programming, including Controlling Hardware	Computational thinking Children explore a range of computational thinking, featuring lots of non-screen, practical activities. Key concepts that such activities relate to include: logic, debugging, algorithms, repetition, modifying and commands.	Programming A: Moving a Robot Children are introduced to early programming concepts. Children explore using individual commands, both with other children and as part of a computer program. They will identify what each floor robot command does and use that knowledge to start predicting the outcome of programs. Time is spent on a broad range of programming aspects, building knowledge in a structured manner. Children are also introduced to the early stages of program design through the introduction of algorithms. CURRICULUM MILESTONES: I can understand and create algorithms (steps or rules as instructions, e.g. how to make a sandwich)	Programming A: Scratch Jr Children take on- screen programming further. Children continue to use programming blocks to use, modify, and create programs. Children create algorithms or multiple algorithms. They practise predicting the behaviour of simple programs. They practise debugging (finding and fixing problems) within programs they have created. CURRICULUM MILESTONES: I can create and run a program (an algorithms that can be understood by a computer) I can predict the behaviour of simple programs. I can debug (find and fix a problem) within a simple program	Programming A: Sequence in Music Children explore the concept of sequencing in programming. Children are introduced to a programming environment, which will be new to most children. They will be introduced to a selection of motion, sound, and event blocks which they will use to create their own programs. Children will explore all aspects of sequences, building knowledge incrementally. CURRICULUM MILESTONES: I can identify that sprites can be controlled by commands that I choose	Programming A: Repetition with Shapes Children will create programs by planning, modifying, and testing commands to create shapes and patterns. Children will use a text-based programming language. Alternative: Sphero Programmable Hardware Children programme Sphero programmable hardware. Children programme Sphero programmable hardware. Children will create programs by planning, modifying, and testing commands to create shapes and patterns. Children will use block-based coding. CURRICULUM MILESTONES: I can create a program that uses loop commands to achieve a particular outcome I can recognise that the order of commands may produce a different outcome I can identify a way to refactor (improve) my code	Programming A: First use Microbits Children will use physical computing to explore programming concepts. Children will be introduced to a microcontroller (Microbit) and learn how to connect and program components (including output devices such as built-in LEDs). Children will be introduced to conditions as a means of controlling the flow of actions, and explore how these can be used in algorithms and programs through the use of input devices (physical switches / tilts). Children will make use of their knowledge of repetition and conditions when introduced to the concept of selection (through the 'if then' structure) and write algorithms and programs that utilise selection. CURRICULUM MILESTONES: I can explain that instructions in a program will produce specific outcomes I can use a condition in an 'if then else' statement to produce given outcomes	Programming A: Variables in games Children explore the concept of variables in programming. First, pupils will learn what variables are, and relate them to real- world examples of values that can be set and changed. Children will then use variables to create a simulation of a scoreboard. With the Use-Modify-Create model, children will experiment with variables in an existing project, then modify them. They will create their own project and apply their knowledge of variables and design to improve a created game. CURRICULUM MILESTONES: I can create my own variable in a program I can program the way that a variable changes I can use the value of a variable as a trigger for another event



Programming B: Programming Am Children are intro- to on-screen programming. C explore the way looks by investige sprites and back They use program blocks to use, ma and create program blocks to use, ma children will also introduced to the stages of program blocks to use, ma create algorithms create algorithm logorithms must blace precise <th>boducedPupils develop their understanding of instructions in sequences and the use of logical reasoning to predict outcomes. Pupils use given commands in different orders to investigate how order can affect outcome.be e early m design ductionItem to the t</br></th> <th>Programming B: Events and Actions Children explore the links between events and actions, while consolidating prior learning relating to sequencing. Children begin by moving a sprite in four directions (up, down, left, and right). They then explore movement within the context of a maze, using design to choose an appropriately sized sprite. Children design and code their own maze- tracing program. Alternative with Hardware: Sphero first Use Children programme Sphero programmable hardware. Children will explore directional movement of the Sphero devices, using drawn programming before moving to block-based work. CURRICULUM MILESTONES: I can identify a way to improve a program</th> <th>Programming Concepts: Repetition with games Children will continue to explore the concept of repetition in programming using an on-screen coding environment. Children will compare and contrast this coding environment with the one they explored previously, noting similarities and differences between the two environments. Children look at the difference between count-controlled and infinite loops, and use their knowledge to modify existing animations and games using repetition. Children will design and create a game which uses repetition, applying stages of programming design throughout. CURRICULUM MILESTONES: I can create a program that uses loops to achieve a particular outcome I can recognise that some programs can be run at the same time</th> <th>Programming B: Selection in Quizzes Pupils develop their knowledge of 'selection' by revisiting how 'conditions' can be used in programming, and then learning how the 'if then else' structure can be used to select different outcomes depending on whether a condition is 'true' or 'false'. They represent this understanding in algorithms, and then by constructing programs using an on-screen programming environment. They learn how to write programs that ask questions and use selection to control the outcomes based on the answers given. They use this knowledge to a given task and implement it as a program. To conclude the unit, children evaluate their program by identifying how it meets the requirements of the task, the ways they have improved it, and further ways it could be improved. CURRICULUM MILESTONES: I can use selection in my programs. I can create an 'if then else' statement that will result in different outcomes</th> <th>Programming B: Sensing with Microbits Children will bring together elements of all the four programming constructs: sequence from Year 3, repetition from Year 4, selection from Year 5, and variables (introduced in Year 6). Children will have the opportunity to use all of these constructs in a different but still familiar environment, while also utilising a physical device — the microbit. Children begin with a simple program for children to build in and test in the programming environment, before transferring it to their microbit. Children take on increasingly difficult projects as their skills heighten and progress. CURRICULUM MILESTONES: I can use variables of my own creation within my programs</th>	boducedPupils develop their understanding of instructions in sequences and the 	Programming B: Events and Actions Children explore the links between events and actions, while consolidating prior learning relating to sequencing. Children begin by moving a sprite in four directions (up, down, left, and right). They then explore movement within the context of a maze, using design to choose an appropriately sized sprite. Children design and code their own maze- tracing program. Alternative with Hardware: Sphero first Use Children programme Sphero programmable hardware. Children will explore directional movement of the Sphero devices, using drawn programming before moving to block-based work. 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	I can debug (find and fix a problem) within a simple program	I can debug errors across a sequence of code		l can explain that instructions in a program will produce specific	l can program and debug multiple functions on programmable hardware
		l can decompose (break into smaller chunks) a programming problem	outcome of changes to code	outcomes I can create and modify a count or event- controlled loop	



	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Information Technology: Computer Systems & Contexts	Children explore a range of mostly non-screen based activities that relate to devices, IT concepts and word recognition.	IT Around us: Technology Around Us Children develop their understanding of technology and how it can help us. They will start to become familiar with the different components of a computer by developing their keyboard and mouse skills. Children will also consider how to use technology responsibly. CURRICULUM MILESTONES: I can identify examples of technology in the classroom I can use apps or websites to aid my learning I can move a cursor with a mouse or trackpad and click on an icon	IT Around us: Computer Systems & Networks Children will look at information technology at school and beyond, in settings such as shops, hospitals, and libraries. Children will investigate how information technology improves our world, and they will learn about using information technology responsibly. CURRICULUM MILESTONES: I can identify information technology in the school, home, and beyond I can create rules for using technology safely	IT Around Us: Connecting Computers Children develop their understanding of digital devices, considering inputs, processes, and outputs. Children compare digital and non-digital devices. Following this, children are introduced to computer networks, including devices that make up a network's infrastructure, such as wireless access points and switches. The unit concludes with children discovering the benefits of connecting devices to a network. CURRICULUM MILESTONES: I can identify networked devices around me I can identify inputs and outputs of common computing devices	IT Around Us: The Internet Children will apply their knowledge and understanding of networks, to appreciate the internet as a network of networks which needs to be kept secure. They will learn that the World Wide Web is part of the internet, and be given opportunities to explore the World Wide Web for themselves to learn about who owns content and what they can access, add, and create. Finally they will evaluate online content to decide how honest, accurate, or reliable it is, and understand the consequences of false information. CURRICULUM MILESTONES: I can recognise that the world wide web is part of the internet I understand that the global interconnection of networks is the internet Ican analyse information and differentiate between 'opinions', 'beliefs' and 'facts'	IT Around Us: Systems & Searching Children develop their understanding of computer systems and how information is transferred between systems and devices. Children consider small- scale systems as well as large-scale systems. They explain the input, output, and process aspects of a variety of different real- world systems. Children discover how information is found on the World Wide Web, through learning how search engines work (including how they select and rank results) and what influences searching, and through comparing different search engines. CURRICULUM MILESTONES: I can explain that a search engine uses web crawlers to create an index I can explain that a search engine follows rules to rank results	IT Around Us: Communication & Collaboration Children learn about the World Wide Web as a communication tool. First, they will learn how we find information on the World Wide Web, through learning how search engines work (including how they select and rank results) and what influences searching, and through comparing different search engines. They will then investigate different methods of communication, before focusing on internet-based communication. Finally, they will evaluate which methods of internet communication to use for particular purposes. CURRICULUM MILESTONES: Lunderstand that computer systems transfer information over networks in data packets Lunderstand that internet connected programs allow us to work together (collaborate)





Information Technology: Data & Information	Children explore a range of mostly non-screen based activities related to data gathering and information	Data & information: Grouping Data Pupils are introduced to labelling, grouping and searching - important aspects of data and information. Pupils will begin by using labels to put objects into groups, and labelling these groups. They will demonstrate that they can count a small number of objects, before and after the objects are grouped. Pupils will begin to demonstrate their ability to sort objects into different groups, based on the properties they choose. Finally, pupils will use their ability to sort objects into different groups to answer questions about data. CURRICULUM MILESTONES: I can place items into groups I can decide on labels for groups	Data & information: Pictograms Children will begin to understand what the term data means and how data can be collected in the form of a tally chart. They will learn the term 'attribute' and use this to help them organise data. They will then progress onto presenting data in the form of pictograms and finally block diagrams. Children will use the data presented to answer questions. CURRICULUM MILESTONES: I can enter data into a computer system I can use a computer to present data I can find answers to questions by looking at data I can explain why I should always ask a trusted adult before I share any information about myself online .	Data & Information: Branching Databases Children develop their understanding of what a branching database is and how to create one. They will gain an understanding of what attributes are and how to use them to sort groups of objects by using yes/no questions. The children will create physical and on-screen branching databases. Finally, they will evaluate the effectiveness of branching databases and will decide what types of data should be presented as a branching database. CURRICULUM MILESTONES: I can create questions with yes / no answers to categorise objects I can retrieve information from different levels of a branching database	Data & Information: Data Logging Children will consider how and why data is collected over time. Children will consider the senses that humans use to experience the environment and how computers can use special input devices called sensors to monitor the environment. Children will collect data as well as access data captured over long periods of time. They will look at data points, data sets, and logging intervals. Children will spend time using a computer to review and analyse data. Towards the end of the unit, children will pose questions and then use data loggers to automatically collect the data needed to answer those questions. CURRICULUM MILESTONES: I can use a digital device to collect data automatically I can choose how often to collect data samples	Data & Information: Flat- file Databases Children look at how a flat-file database can be used to organise data in records. Children use tools within a database to order and answer questions about data. They create graphs and charts from their data to help solve problems. They use a real-life database to answer a question, and present their work to others. CURRICULUM MILESTONES: I can choose multiple criteria to search data to answer a given question (AND and OR) I can choose an appropriate graph to visually compare data	Data & Information: Spreadsheets Children are introduced to the fundamental operations of spreadsheets. They will be supported in organising data into columns and rows to create their own data set. Children will be taught the importance of formatting data to support calculations, while also being introduced to formulas and will begin to understand how they can be used to produce calculated data. Children will be taught how to apply formulas that include a range of cells, and apply formulas to multiple cells by duplicating them. Children will use spreadsheets to plan an event and answer questions. Finally, children will create graphs and charts, and evaluate their results in comparison to questions asked. CURRICULUM MILESTONES: I can collect data and enter it into a spreadsheet I can recognise that data can be calculated using different operations I can apply a formula to calculate the data I need to answer questions

Information

Technology:

Digital Media



Digital Design: Digital **Digital Design:** Diaital Desian: **Digital Design: Photo Digital Design: Vector** Paintina Diaital Photoaraphy Animation Manipulation Graphics Children develop their Children will use a Children will Children will find out Children will learn to understanding of a range of techniques to develop their that vector images recoanise that range of tools used for plan and create stopunderstanding of are made up of different devices Media & Sound diaital paintina. They frame animations. Next how diaital images shapes. They will learn can be used to Foundations use these tools to they will apply those can be chanaed how to use the capture Children explore a create their own diaital skills to create a storyand edited, and different drawina photographs and tools and how ranae of mostly paintings, while gaining based animation. how they can then will gain experience inspiration from a range be resaved and non-screen based Children will add other images are created capturing, editing, of artists' work. Children activities that types of media to their reused. They will in lavers. They will and improvina consider their animation, such as consider the impact explore the ways in relate to: painting, photos. Finally, they pattern makina. preferences when music and text. that editing images which images can be will use this real / not real, painting with and can have, and grouped and knowledge to without the use of sound making and CURRICULUM evaluate the duplicated to support recognise that diaital devices. **MILESTONES:** effectiveness of them in creating music. images they see their choices. more complex pieces may not be real. CURRICULUM I can design and plan of work. **MILESTONES:** CURRICULUM for an **animation** (e.a. CURRICULUM stop-frame animation MILESTONES: CURRICULUM **MILESTONES:** I can move a **cursor** with on an iPad) **MILESTONES:** the trackpad and **click** I can manipulate I can use on an icon I can create and edit and adjust images I can create a vector technology to an **animation** for a particular drawing that is capture and I can save and retrieve purpose comprised of lines manipulate work that I have and shapes (objects) (position, re-size, produced (includes When **searching** on of different colours rotate) auto-save) the internet for photos as part of a content to use, I I can resize. piece of work I can use an **app** or can explain why I duplicate, rotate, website to make need to consider alian and colour I can describe ways who owns it and araphical marks or objects in vector in which people pictures whether I have the drawinas miaht make right to reuse it. themselves look I can use aroupina different online and layers in my vector drawing

Digital Design: 3D Modelling

Children will develop their knowledge and understanding of using a computer to produce 3D models. Children will initially familiarise themselves with working in a 3D space, including combining 3D objects to make a house and examining the differences between working digitally with 2D and 3D araphics. Children will progress to makina accurate 3D models of physical objects, such as a pencil holder, which include using 3D objects as placeholders. Finally, children will examine the need to group 3D objects, then go on to plan, develop, and evaluate their own 3D model.

CURRICULUM MILESTONES:

I can **modify and adjust** objects in a 3D space.

I can recognise the difference when working with **3D objects** in comparison to 2D shapes.

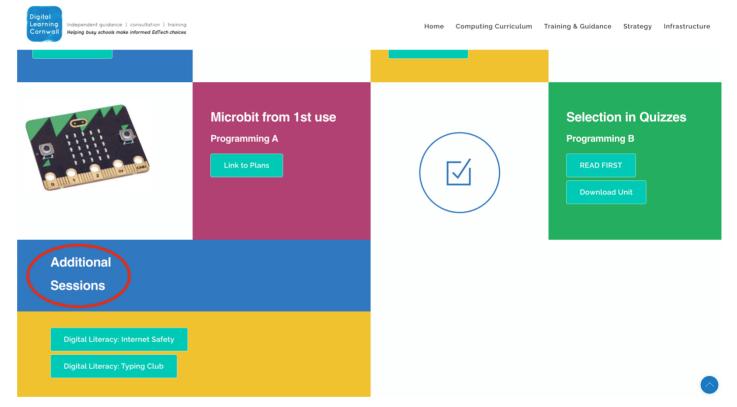


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Digital Design: Digital WritingDigital Sound: Making MusicDigital Design: Book CreatorDigital Sound: Audio EditingDigital Design: Video EditingDigital Design: Video CreatorChildren will develop their understanding of the various aspects of using a computer to create and manipulate text. Children willDigital Sound: Making Music Children will use a to a variety of pieces of music and can make themDigital Design: Book CreatorDigital Design: Video EditingDigital Design: Video EditingDigital Design: Video CreationDigital Design: Video LondornChildren will use a computer to create music. They will listen to a variety of create and manipulate text. Children willDigital Sound: Making Music Children will use a computer to create music. They will listen to a variety of pieces of music and can make themDigital Design: Video CreatorDigital Design: Video EditingDigital Design: Video Children will develop their understanding of the creation and manipulation of text. Children will increase their confidence and abilities with keyboardDigital Design: Video EditingDigital Design: Video Children will develop the creation and audio, which will include identifying the input device (microphone) and output devicesDigital Design: Video EditingDigital Design: Video Creation Children have the opportunity to learn how to create short videos in groups. As they progress, they will develop the skills and processes of creation, and output devicesDigital Sound: Audio to create short videos in group. As they progress, they will develop the skills and processes of <b< th=""></b<>
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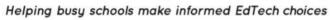


The following Digital Literacy tasks and objectives are featured and interwoven within specific Computing units. Internet Safety sessions may be incorporated into a school's PSHE delivery. Schools may also wish to teach digital literacy skills more explicitly, e.g. typing practise sessions. The 'Additional Sessions' section of the Computing curriculum (at the bottom of each year-group page), provides advice and guidance on the delivery of such extra sessions).





	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Digital Literacy	Operational Core Skills Children use hand- eye coordination to operate devices such as touch- screens and touchpads	Operational Core Skills Children will use websites and apps to aid their learning. Children are able to save and retrieve work they have produced. Children learn to move a cursor with the trackpad on a laptop,	Operational Core Skills Children will develop their understanding of creating and manipulate text further. Children will become familiar with using a keyboard to enter, edit and remove text. Children will also consider how to change the appearance of text, and will be able to justify their reasoning in making such changes. Children will consider the differences between using a computer to create text, and handwritten approaches. Children practise key skills such as two-finger scrolling, use of the shift key for capital letters, and deleting chosen parts of on- screen text.	Operational Core Skills Children use software to edit and improve written work from a cross-curricular subject. Children develop their use of the shift key, using numerous basic punctuation marks correctly within their on-screen writing. Children type to achieve a completed written piece that can be printed or published directly to the internet. Children use specific typing software to improve keyboard skills and awareness.	Operational Core Skills Children further improve their ability to type towards completed work, including more advanced punctuation marks and accuracy. Children use digital spell-check facilities to locate and correct spelling mistakes. Children will use multiple tabs within a web browser or move between different apps as part of a task.	Operational Core Skills Children will become confident and competent users of web-based programs and apps, combining numerous web-based programs and/or apps to accomplish goals. Children hone and improve their ability to type and improve on-screen written work, and continue to access typing practise software to develop this area. Children use digital thesaurus facilities to replace words and phrases with better choices.	Operational Core Skills Children will look critically at their written on-screen pieces, and re-order on- screen sentences for clarity, purpose or effect. They will be able to type at speed, with accurate spelling and a range of correctly incorporated punctuation. Children will use digital spelling checkers and thesaurus facilities with confidence.





	Internet Safety	Internet Safety	Internet Safety	Internet Safety	Internet Safety	Internet Safety
	Children give examples of	Children describe ways	Children describe ways in	Children explain how	Children explain how	Children explain how they
	when and how to speak to an adult when they need to.	in which people might	which media can shape ideas about gender.	their online identity can be different to the	identity online can be copied, modified or	can represent themselves different ways online.
	an addit when they heed to.	make themselves look different online.	ideas about gender.	identity they present in	altered.	different ways online.
Internet Safety	Children recognise some	different online.	Children explain how their	'real life'.	difered.	Children demonstrate ho
Children explore	ways in which the internet	Children explain some	own and other people's		Children explain how	they would support other
internet safety	can be used to	risks of communicating	feelings can be hurt by	Children explain what	impulsive and rash	(including those who are
concepts at an	communicate.	online with others they	what is said or written	it means to 'know	communications online	having difficulties) online
appropriate level		don't know well.	online.	someone' online and	may cause problems.	e ,
through retelling of	Children describe what			why this might be		Children describe some
stories and discussion.	information I should not put	Children explain how	Children know who they	different from knowing	Children describe ways	simple ways that help bu
Children explore safe	online without asking a	information put online	should ask if they are not	someone in real life.	that information about	positive online reputation
use of technology	trusted adult first.	about them can last for	sure if they should put		people online can be	
along with other		a long time.	something online.	Children describe how	used by others to make	Children identify a range
physical items within	Children describe how to	2		they can find out	judgments about an	ways to report concerns
their settings,	behave online in ways that	Children describe how	Children describe rules	information about	individual.)	in school and at home c
	do not upset others	to behave online in	about how to behave	someone by looking		online bullying.
	Children identify devices	ways that do not upset	online and how to follow	online.	Children explain how they would report online	Children demonstrate
	they could use to access information on the internet.	others.	them.	Children explain why	bullying on the apps and	strategies to enable the
	monution on the mether.		Children evaluate digital	they need to think	platforms that they use.	analyse and evaluate th
	Children explain rules to	Children demonstrate	content and can explain	carefully about how	planointis inar incy use.	validity of 'facts. Childre
	keep us safe when we are	how to navigate a	how to make choices from	content they post	Children explain why lots	explain why using these
	using technology both in	simple webpage to get	search results.	might affect others,	of people sharing the	strategies are important
	and beyond the home.	to information they		their feelings and how	same opinions or beliefs	
	,	need (e.g. home,	Children identify situations	it may affect how	online does not make	Children assess and acti
		forward, back buttons;	where they might need to	others feel about them	those opinions or beliefs	different strategies to lim
		links, tabs and	limit the amount of time	(their reputation).	true.	impact of technology or
	Children identify some simple	sections).	they use technology.			their health (e.g. nightsh
	examples of personal	Children create rules		Children analyse	Children describe	mode, regular breaks, c
	information (e.g. name,	for using technology	Children describe simple	information and	common systems that	posture, sleep, diet and
	address, birthday, age,	safelv	strategies for creating and	differentiate between	regulate age-related	exercise).
	location).	salely	keeping passwords private.	'opinions', 'beliefs' and 'facts'. Children	content (e.g. PEGI, BBFC,	Children deseribe ways
	Children name their work so	Children explain why	private.	understand what	parental warnings) and describe their purpose.	Children describe ways which some online cont
	that others know it belongs	they should always ask	Children explain why	criteria have to be met	describe meil polpose.	targets people to gain
	to them.	a trusted adult before	copying someone else's	before something is a	Children explain how lots	money or information
	to mem.	they share information	work from the internet	'fact.	of free apps or services	illegally; children describ
		about themselves	without permission can	Children describe ways	may read and share	strategies to help them
		online.	cause problems.	technology can affect	private information (e.g.	identify such content (e
				healthy sleep and can	friends, contacts, likes,	scams, phishing).
		Children recognise that		describe some of the	images, videos, voice,	
		content on the internet		issues.	messages, geolocation)	Children demonstrate h
		may belong to other			with others.	make references to and
		people.		Children explain how		acknowledge sources th
				internet use can be	Children demonstrate	have used from the inter
				monitored.	the use of search tools to	
					find and access online	
				Children assess and	content which can be	
				justify when it is	reused by others.	
				acceptable to use the	1	

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