

# Computing Progression Map



A		Computing Progression of Skills Map Computer Science				
		EYFS	Key Stage 1	Lower Key Stage 2	Upper Key Stage 2	
Hardmaro	ta	<ul> <li><i>v</i> the end of EYFS, children will be hught to:</li> <li>operate a camera to take photographs of meaningful creations or moments.</li> <li>explore and tinker with hardware to develop familiarity and introduce relevant vocabulary.</li> <li>Recognise and identify familiar letters and numbers on a keyboard.</li> <li>Develop basic mouse skills such as moving and clicking.</li> </ul>	<ul> <li>By the end of Year 2, children will be taught to:</li> <li>operate a camera or tablet to take photos and videos.</li> <li>explore and tinker with hardware to find out how it works.</li> <li>recognise that some devices are input devices and others are output devices.</li> <li>where keys are located on the keyboard.</li> <li>understanding what a computer is and that it's made up of different components.</li> <li>know that technology is doing what we want it to do via its output.</li> <li>develop confidence with the keyboard and the basics of touch typing.</li> <li>recognise that buttons cause effects and that technology follows instructions.</li> <li>use greater control when taking photos with cameras, tablets or computers.</li> </ul>	<ul> <li>By the end of Year 4, children will be taught to: <ul> <li>understand what the different components of a computer do and how they work together.</li> <li>draw comparisons across different types of computers.</li> <li>learn about the purpose of routers.</li> <li>use tablets or digital cameras to film a weather forecast.</li> <li>understand that weather stations use sensors to gather and record data which predicts the weather.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 6, children will be taught to: <ul> <li>learn that external devices can be programmed by a separate computer.</li> <li>learn the difference between ROM and RAM.</li> <li>recognise how the size of RAM affects the processing of data.</li> <li>understand the fetch, decode, execute cycle.</li> <li>learn about the history of computers and how they have evolved over time.</li> <li>use the understanding of historic computers to design a computer of the future</li> <li>understand and identifying barcodes, QR codes and RFID.</li> <li>identify devices and applications that can scan or read barcodes, QR codes and RFID.</li> </ul> </li> </ul>	

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	EYFS	Key Stage 1	Lower Key Stage 2	Upper Key Stage 2
Networks and data representation	By the end of EYFS, children will be taught to: N/A	By the end of Year 2, children will be taught to: N/A	<ul> <li>By the end of Year 4, children will be taught to:</li> <li>understand that computer networks provide multiple services, such as the World Wide Web, and opportunities for communication and collaboration.</li> <li>understand the role of the key components of a network.</li> <li>identify the key components within a network, including whether they are wired or wireless.</li> <li>understand that websites and videos are files that are shared from one computer to another.</li> <li>learn about the role of packets.</li> <li>understand how networks work and their purpose.</li> <li>recognise links between networks and the internet.</li> <li>learn how data is transferred.</li> </ul>	<ul> <li>By the end of Year 6, children will be taught to:</li> <li>learn the vocabulary associated with data: data and transmit.</li> <li>learn how the data for digital images can be compressed.</li> <li>recognise that computers transfer data in binary and understanding simple binary addition.</li> <li>relate binary signals (Boolean) to the simple character-based language, ASCII.</li> <li>learn that messages can be sent by binary code, reading binary up to eight characters and carrying out binary calculations.</li> <li>understand how bit patterns represent images as pixels.</li> <li>Understanding that computer networks provide multiple services</li> </ul>





	EYFS	Key Stage 1	Lower Key Stage 2	Upper Key Stage 2
Computational thinking	By the end of EYFS, children will be taught to: • use logical reasoning to understand simple instructions and predict the outcome.	<ul> <li>By the end of Year 2, children will be taught to: <ul> <li>learn that decomposition means breaking a problem down into smaller parts and articulating this.</li> <li>use decomposition to solve unplugged challenges.</li> <li>use logical reasoning to predict the behaviour of simple programs.</li> <li>develop the skills associated with sequencing in unplugged activities.</li> <li>follow a basic set of instructions.</li> <li>assemble instructions into a simple algorithm.</li> <li>explain what an algorithm is.</li> <li>follow an algorithm.</li> <li>create a clear and precise algorithm.</li> <li>learn that programs execute by following precise instructions.</li> <li>incorporate loops within algorithms.</li> <li>decompose a game to predict the algorithms used to create it.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 4, children will be taught to:</li> <li>use decomposition to explore the code behind an animation.</li> <li>use repetition in programs.</li> <li>use logical reasoning to explain how simple algorithms work.</li> <li>explain the purpose of an algorithm.</li> <li>form algorithms independently.</li> <li>use decomposition to solve a problem by finding out what code was used.</li> <li>use decomposition to understand the purpose of a script of code.</li> <li>identify patterns through unplugged activities.</li> <li>use abstraction to identify the important parts during both plugged and unplugged activities.</li> </ul>	<ul> <li>By the end of Year 6, children will be taught to:</li> <li>decompose a program without support.</li> <li>predict how software will work based on previous experience.</li> <li>use past experiences to help solve new problems.</li> <li>write increasingly complex algorithms for a purpose.</li> <li>decompose a program into an algorithm.</li> <li>decompose a nimations into a series of images.</li> <li>decompose a story to be able to plan a program to tell a story.</li> </ul>

	Computing Progression of Skills Map						
	EYFS		Key Stage 1		Lower Key Stage 2		Upper Key Stage 2
Programming	<ul> <li>By the end of EYFS, child be taught to:</li> <li>follow instruction of practical activi games.</li> <li>learn to give simi instructions.</li> <li>experiment with programming a bot/Blue- bot an how to give simp commands.</li> <li>learn to debug instructions, with of an adult, where go wrong.</li> </ul>	taught to: taught taught to: taught taught ta	d of Year 2, children will be arn to debug instructions hen things go wrong. arn to debug an algorithm in n unplugged scenario. e logical thinking to explore ftware, predicting, testing nd explaining what it does. e an algorithm to write a asic computer program. rogram a floor robot to follow planned route. e programming language to aplain how a floor robot orks. e loop blocks when rogramming to repeat an struction more than once.	taught • •	end of Year 4, children will be to: use logical thinking to explore more complex software; predicting, testing and explaining what it does. incorporate loops to make code more efficient. continue existing code. make reasonable suggestions for how to debug their own and others' code. create algorithms for a specific purpose. code a simple game. use abstraction and pattern recognition to modify code. incorporate variables to make code more efficient. remix existing code.	taught • • • • • • • • • • • • • • • • •	end of Year 6, children will be to: program an animation. iterate and develop their programming as they work. confidently use loops in programming. use a more systematic approach to debugging code, justifying what is wrong and how it can be corrected. write code to create a desired effect. use a range of programming commands. use repetition within a program. predict code and adapt it to a chosen purpose. change a program to personalise it. evaluate code to understand its purpose. debug quickly and effectively to make a program more efficient. remix existing code to explore a problem. use and adapt nested loops. program using the language Python Amend code within a live scenario.

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Using software	By the end of EYFS, children will be taught to: • use a simple online paint tool to create digital art.	<ul> <li>By the end of Year 2, children will be taught to: <ul> <li>use a basic range of tools within graphic editing software.</li> <li>take and edit photographs.</li> <li>develop control of the mouse through dragging, clicking and resizing of images to create different effects.</li> <li>develop understanding of different software tools.</li> <li>develop word processing skills, including altering text, copying and pasting and using keyboard shortcuts.</li> <li>use word processing software to type and reformat text.</li> <li>create and label images</li> <li>use software (and unplugged means) to create story animations.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 4, children will be taught to: <ul> <li>taking photographs and recording video to tell a story.</li> <li>use software to edit and enhance their video adding music, sounds and text on screen with transitions.</li> <li>design and create a webpage for a given purpose.</li> <li>build a web page and create content for it.</li> <li>use software to work collaboratively with others.</li> <li>use online software for documents, presentations, forms and spreadsheets.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 6, children will be taught to: <ul> <li>Use logical thinking to explore software more independently, making predictions based on their previous experience, iterating ideas and testing continuously.</li> <li>identify ways to improve and edit programs, videos, images etc.</li> <li>use search and word processing skills to create a presentation.</li> <li>independently learn how to use 3D design software package TinkerCAD.</li> <li>create and edit sound recordings for a specific purpose.</li> <li>create and edit videos, adding multiple elements: music, voiceover, sound, text and transitions.</li> <li>use design software TinkerCAD to design a product.</li> <li>create a website with embedded links and multiple pages.</li> <li>Use software programme Sonic Pi/Scratch to create music.</li> <li>use video editing software to animate.</li> </ul> </li> </ul>	

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	EYFS	Key Stage 1	Lower Key Stage 2	Upper Key Stage 2	
Using email and internet searches	By the end of EYFS, children will be taught to: N/A	<ul> <li>By the end of Year 2, children will be taught to: <ul> <li>recognise devices that are connected to the internet.</li> <li>understand that we are connected to others when using the internet.</li> <li>search for appropriate images to use in a document.</li> <li>understanding what online information is.</li> <li>search and download images from the internet safely</li> </ul> </li> </ul>	<ul> <li>By the end of Year 4, children will be taught to: <ul> <li>learn to log in and out of an email account.</li> <li>write an email including a subject, 'to' and 'from.'</li> <li>send an email with an attachment.</li> <li>reply to an email.</li> <li>understand why some results come before others when searching.</li> <li>use keywords to effectively search for information on the internet.</li> <li>understand that information found by searching the internet is not all grounded in fact.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 6, children will be taught to: <ul> <li>understand how search engines work.</li> <li>develop searching skills to help find relevant information on the internet.</li> <li>learn how to use search engines effectively to find information, focussing on keyword searches and evaluating search returns.</li> </ul> </li> </ul>	





	EYFS	Key Stage 1	Lower Key Stage 2	Upper Key Stage 2
Using data	<ul> <li>By the end of EYFS, children will be taught to:</li> <li>represent data through sorting and categorising objects in unplugged scenarios.</li> <li>represent data through physical pictograms.</li> <li>explor branch databases through physical games.</li> </ul>	<ul> <li>By the end of Year 2, children will be taught to: <ul> <li>understand that technology can be used to represent data in different ways: pictograms, tables, pie charts, bar charts, block graphs etc</li> <li>collect and inputting data into a spreadsheet.</li> <li>interpret data from a spreadsheet.</li> <li>use representations to answer questions about data.</li> <li>use software to explore and create pictograms and branching databases.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 4, children will be taught to: <ul> <li>understand the vocabulary associated with databases: field, record, data.</li> <li>learn about the pros and cons of digital versus paper databases.</li> <li>sort and filter databases to easily retrieve information.</li> <li>create and interpret charts and graphs to understand data.</li> <li>understand that data is used to forecast weather.</li> <li>record data in a spreadsheet independently.</li> <li>sort data in a spreadsheet to compare using the 'sort by' option.</li> <li>design a device which gathers and records sensor data.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 6, children will be taught to: <ul> <li>understand how data is collected in remote or dangerous places.</li> <li>understand how data might be used to tell us about a location.</li> <li>understand how barcodes, QR codes and RFID work.</li> <li>gather and analyse data in real time.</li> <li>create formulas and sorting data within spreadsheets.</li> </ul> </li> </ul>





	EYFS	Key Stage 1	Lower Key Stage 2	Upper Key Stage 2
Wider use of technology	By the end of EYFS, children will be taught to: N/A	<ul> <li>By the end of Year 2, children will be taught to:</li> <li>recognise common uses of information technology, including beyond school.</li> <li>understand some of the ways we can use the internet.</li> <li>learn how computers are used in the wider world.</li> </ul>	<ul> <li>By the end of Year 4, children will be taught to: <ul> <li>understand the purpose of emails.</li> <li>recognise how social media platforms are used to interact.</li> <li>understand that software can be used collaboratively online to work as a team.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 6, children will be taught to:</li> <li>learn about different forms of communication that have developed with the use of technology.</li> <li>learn about the Internet of Things and how it has led to 'big data'.</li> <li>learn how 'big data' can be used to solve a problem or improve efficiency.</li> </ul>

# Computing Progression of Skills Map Digital Literacy



	EYFS	Key Stage 1	Lower Key Stage 2	Upper Key Stage 2
Digital Literacy	<ul> <li>By the end of EYFS, children will be taught to: <ul> <li>recognise that a range of technology is used for different purposes.</li> <li>learn to log in and log out.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 2, children will be taught to: <ul> <li>log in and out and saving work on their own account.</li> <li>when using the internet to search for images, learn what to do if they come across something online that worries them or makes them feel uncomfortable.</li> <li>understand how to interact safely with others online.</li> <li>recognise how actions on the internet can affect others.</li> <li>recognise what a digital footprint is and how to be careful about what we post.</li> <li>identify whether information is safe or unsafe to be shared online.</li> <li>learn how to create a strong password.</li> <li>understand how to stay safe when talking to people online and what to do if they see or hear something online that makes them feel upset or uncomfortable</li> <li>learn to be respectful of others when sharing online and ask for their permission before sharing content.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 4, children will be taught to: <ul> <li>recognise that different information is shared online including facts, beliefs and opinions.</li> <li>learn how to identify reliable information when searching online.</li> <li>learn how to stay safe on social media.</li> <li>consider the impact technology can have on mood.</li> <li>learn that not all emails are genuine, recognising when an email might be fake and what to do about it.</li> <li>recognise that information on the internet might not be true or correct and that some sources are more trustworthy than others.</li> <li>learn to make judgements about the accuracy of online searches.</li> <li>identify forms of advertising online.</li> <li>reflect on the positives and negatives of time spent online.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 6, children will be taught to: <ul> <li>identify possible dangers online and learning how to stay safe.</li> <li>evaluate the pros and cons of online communication.</li> <li>recognise that information on the internet might not be true or correct and learning ways of checking validity.</li> <li>learn what to do if they experience bullying online.</li> <li>learn to use an online community safely.</li> <li>use search engines safely and effectively.</li> <li>understand the importance of secure passwords and how to create them.</li> <li>learn strategies to create a positive online reputation.</li> <li>learn strategies to capture evidence of online bullying in order to seek help.</li> <li>recognise that updated software can help to prevent data corruption and hacking.</li> </ul> </li> </ul>

ļ,	Computing Progression of Knowledge Map Creating Media					
	EYFS	Key Stage 1	Lower Key Stage 2	Upper Key Stage 2		
Creating Media	By the end of EYFS, children will be taught to: N/A	<ul> <li>By the end of Year 2, children will be taught to: <ul> <li>understand that holding the camera still and considering angles and light are important to take good pictures.</li> <li>know that you can edit, crop and filter photographs.</li> <li>know how to search safely for images online.</li> <li>understand that an animation is made up of a sequence of photographs.</li> <li>know that small changes in my frames will create a smoother looking animation.</li> <li>understand what software creates simple animations and some of its features e.g. onion skinning.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 4, children will be taught to: <ul> <li>know that different types of camera shots can make my photos or videos look more effective.</li> <li>know that I can edit photos and videos using film editing software.</li> <li>understand that I can add transitions and text to my video.</li> <li>know some of the features of web design software.</li> <li>know that a website is a collection of pages that are all connected.</li> <li>know that websites usually have a homepage and subpages as well as clickable links to new pages, called hyperlinks.</li> <li>know that websites should be informative and interactive.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 6, children will be taught to: <ul> <li>know that radio plays are plays where the audience can only hear the action so sound effects are important.</li> <li>know that sound clips can be recorded using sound recording software.</li> <li>know that sound clips can be edited and trimmed.</li> <li>understand that stop motion animation is an animation filmed one frame at a time using models, and with tiny changes between each photograph.</li> <li>know that decomposition of an idea is important when creating stop-motion animations.</li> <li>know that editing is an important feature of making and improving a stop motion animation.</li> </ul> </li> </ul>		



### Computing Progression of Knowledge Map Computing Systems and Networks



	EYFS	Key Stage 1	Lower Key Stage 2	Upper Key Stage 2
<b>Computing Systems and Networks</b>	<ul> <li>By the end of EVFS, children will be taught to: <ul> <li>be able to understand what a computer keyboard is and recognising some letters and numbers.</li> <li>know that a mouse can be used to click, drag and create simple drawings.</li> <li>know that to use a computer you need to log in to it and then log out at the end of your session.</li> <li>know that different types of technology can be found at home and in school.</li> <li>know that you can take simple photographs with a camera or iPad.</li> <li>know that you must hold the camera still and ensure the subject is in the shot to take a photo</li> </ul> </li> </ul>	<ul> <li>By the end of Year 2, children will be taught to: <ul> <li>know that "log in and log out" means to begin and end a connection with a computer.</li> <li>know that a computer and mouse can be used to click, drag, fill and select and also add backgrounds, text, layers, shapes and clip art.</li> <li>know that passwords are important for security.</li> <li>know that when we create something on a computer it can be more easily saved and shared than a paper version.</li> <li>know the difference between a desktop and laptop computer.</li> <li>know that people control technology.</li> <li>know that buttons are a form of input that give a computer an instruction about what to do (output).</li> <li>know that touch typing is the fastest way to type.</li> <li>know that "copy and paste" is a quick way of duplicating text.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 4, children will be taught to:</li> <li>know what a tablet is and to understand that email stands for 'electronic mail.'</li> <li>know that an attachment is an extra file added to an email.</li> <li>understand that emails should contain appropriate and respectful content.</li> <li>know that cyberbullying is bullying using electronics such as a computer or phone.</li> <li>understand that software can be used collaboratively online to work as a team.</li> <li>know what type of comments and suggestions on a collaborative document can be helpful.</li> <li>know that you can use images, text, transitions and animation in presentations.</li> <li>know what a tablet is and how it is different from a laptop/desktop computer.</li> <li>understand what a network is and how a school network might be organised.</li> <li>know that a router connects us to the internet.</li> <li>know that a packet is and why it is important for website data transfer.</li> <li>know that a packet is and outputs play.</li> <li>know what some of the different components inside a computer are e.g. CPU, RAM, hard drive, and how they work together.</li> </ul>	<ul> <li>By the end of Year 6, children will be taught to:</li> <li>know the difference between ROM and RAM.</li> <li>understand the importance of having a secure password and what "brute force hacking" is.</li> <li>know that the first computers were created at Bletchley Park to crack the Enigma code to help the war effort in World War 2.</li> <li>know about some of the historical figures that contributed to technological advances in computing.</li> <li>understand what techniques are required to create a presentation using appropriate software.</li> <li>know how search engines work.</li> <li>understand that anyone can create a website and therefore we should take steps to check the validity of websites.</li> <li>know that web crawlers are computer programs that crawl through the internet.</li> <li>understand what copyright is</li> </ul>

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Programming	<ul> <li>By the end of EYFS, children will be taught to: <ul> <li>know that being able to follow and give simple instructions is important in computing.</li> <li>understand that it is important for instructions to be in the right order.</li> <li>understand why a set of instructions may have gone wrong.</li> <li>know that you can program a Bee-Bot with some simple commands.</li> <li>understand that debugging means how to fix some simple programming errors.</li> <li>understand that an algorithm is a set of clear and precise instructions.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 2, children will be taught to: <ul> <li>understand that an algorithm is when instructions are put in an exact order.</li> <li>know that input devices get information into a computer and that output devices get information out of a computer.</li> <li>understand that decomposition means breaking a problem into manageable chunks and that it is important in computing.</li> <li>know that we call errors in an algorithm 'bugs' and fixing these 'debugging'.</li> <li>know that coding is writing in a special language so that the computer understands what to do.</li> <li>understand that the character in Scratchlr is controlled by the programming blocks.</li> <li>know that you can write a program to create a musical instrument or tell a joke.</li> <li>understand the basic functions of a Bee-Bot.</li> <li>know that algorithms move a bee-bot accurately to a chosen destination.</li> <li>understand what machine learning is and how that enables computers to make predictions.</li> <li>know that loops in programming are where you set a certain instruction (or instructions) to be repeated multiple times.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 4, children will be taught to: <ul> <li>know that Scratch is a programming language and some of its basic functions.</li> <li>understand how to use loops to improve programming.</li> <li>understand how decomposition is used in programming.</li> <li>understand that you can remix and adapt existing code.</li> <li>understand that a variable is a value that can change (depending on conditions) and know that you can create them in Scratch.</li> <li>know what a conditional statement is in programming.</li> <li>understand that variables can help you to create a quiz on Scratch.</li> <li>know that combining computational thinking skills (sequence, abstraction, decomposition etc) can help you to solve a problem.</li> <li>understand that pattern recognition means identifying patterns to help them work out how the code works.</li> <li>understand that algorithms can be used for a number of purposes e.g. animation, games design etc.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 6, children will be taught to: <ul> <li>know that a Micro:bit is a programmable device.</li> <li>know that Micro:bit uses a block coding language similar to Scratch.</li> <li>understand and recognise coding structures including variables.</li> <li>know what techniques to use to create a program for a specific purpose (including decomposition).</li> <li>know that there are text-based programming languages such as Logo and Python.</li> <li>know that nested loops are loops inside of loops.</li> <li>understand the use of random numbers and remix Python code.</li> <li>know that a soundtrack is music for a film/video and that one way of composing these is on programming software.</li> <li>understand that using loops can make the process of writing music simpler and more effective.</li> <li>know how to adapt their code while performing their music.</li> </ul> </li> </ul>

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Data Handling	<ul> <li>By the end of EYFS, children will be taught to: <ul> <li>know that sorting objects into various categories can help you locate information.</li> <li>know that using yes/no questions to find an answer is a branching database.</li> <li>know that a pictogram is a way of showing information.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 2, children will be taught to: <ul> <li>know how that charts and pictograms can be created using a computer.</li> <li>understand that a branching database is a way of classifying a group of objects.</li> <li>know that computers understand different types of 'input'.</li> <li>understand that you can enter simple data into a spreadsheet.</li> <li>understand what steps you need to take to create an algorithm.</li> <li>know that computers can be used to monitor supplies.</li> </ul> </li> </ul>	<ul> <li>By the end of Year 4, children will be taught to: <ul> <li>know that a database is a collection of data stored in a logical, structured and orderly manner.</li> <li>know that computer databases can be useful for sorting and filtering data.</li> <li>know that different visual representations of data can be made on a computer.</li> <li>know that computers can use different forms of input to sense the world around them so that they can record and respond to data. This is called 'sensor data'.</li> <li>know that a weather machine is an automated machine that responds to sensor data.</li> <li>understand that weather forecasters use specific language, expression and pre-prepared scripts to help create weather forecast films</li> </ul> </li> </ul>	<ul> <li>By the end of Year 6, children will be taught to:</li> <li>know that Mars Rover is a motor vehicle that collects data from space by taking photos and examining samples of rock.</li> <li>know what numbers using binary code look like and be able to identify how messages can be sent in this format.</li> <li>understand that RAM is Random Access Memory and acts as the computer's working memory.</li> <li>know what simple operations can be used to calculate bit patterns.</li> <li>know that data contained within barcodes and QR codes can be used by computers.</li> <li>know that number are a way of transmitting data.</li> <li>know that data is often encrypted so that even if it is stolen it is not useful to the thief.</li> <li>know that data can become corrupted within a network but this is less likely to happen if it is sent in 'packets'.</li> <li>know that devices that are not updated are most vulnerable to hackers.</li> </ul>

ļ,	Computing Progression of Knowledge Map			
	EYFS	Key Stage 1	Lower Key Stage 2	Upper Key Stage 2
Online Safety	By the end of EYFS, children will be taught to: • N/A	<ul> <li>By the end of Year 2, children will be taught to: <ul> <li>know that the internet is many devices connected to one another.</li> <li>know that you should tell a trusted adult if you feel unsafe or worried online.</li> <li>know that people you do not know on the internet (online) are strangers and are not always who they say they are.</li> <li>know that to stay safe online it is important to keep personal information safe.</li> <li>know that 'sharing' online means giving something specific to someone else via the internet and 'posting' online means placing information on the internet</li> <li>understand the difference between online and offline.</li> <li>know what the techniques are for creating a strong password.</li> <li>know that you should ask permission from others before sharing about them online and that they have the right to say 'no.'</li> </ul> </li> </ul>	<ul> <li>By the end of Year 4, children will be taught to: <ul> <li>know that not everything on the internet is true: people share facts, beliefs and opinions online.</li> <li>understand that the internet can affect your moods and feelings.</li> <li>know that privacy settings limit who can access your important personal information Information Information, such as your name, age, gender etc.</li> <li>know what social media is and that age restrictions apply.</li> <li>understand some of the methods used to encourage people to buy things online.</li> <li>understand that technology can be designed to act like or impersonate living things.</li> <li>understand that technology can be a distraction and identify when someone might need to limit the amount of time spent using technology.</li> <li>understand what behaviours are appropriate in order to stay safe and be respectful online</li> </ul> </li> </ul>	<ul> <li>By the end of Year 6, children will be taught to: <ul> <li>know different ways we can communicate online.</li> <li>understand how online information can be used to form judgements.</li> <li>understand some ways to deal with online bullying.</li> <li>know that apps require permission to access private information and that you can alter the permissions.</li> <li>know where I can go for support if I am being bullied online or feel that my health is being affected by time online.</li> <li>know that a 'digital footprint' means the information that exists on the internet as a result of a person's online activity.</li> <li>know what steps are required to capture bullying content as evidence.</li> <li>understand that it is important to manage personal passwords effectively.</li> <li>understand what it means to have a positive online reputation.</li> </ul> </li> </ul>