



Statement of Intent and implementation for Computing

Our Vision

Our school aims to provide a varied, engaging and ambitious curriculum that is child-centred, its starting points being the needs of our most vulnerable learners. We recognise that our children's needs are not simply academically based, but also involve their emotional and pastoral wellbeing. This helps to drive our approaches to our children's learning. We strive to offer opportunities to all children, regardless of ability or background with the aim of developing the whole child and we encourage every child to identify and attain the skills necessary in order to further their potential. Our children are encouraged to become courageous and independent people and to take ownership of their learning. The GEMS are at the centre of what we do.

Equalities Statement

Churchdown Parton Manor Schools' Federation provides an education for all, acknowledges the society in which we live, and is enriched by the ethnic, cultural and religious diversity of its citizens. The school strives to ensure that the culture and ethos of the school are such that, whatever the heritage, origins, faith, age, gender, sexuality and ability of members of the school community, everyone has the right to equal chances, is equally valued and treats one another with respect so that all pupils and staff are encouraged and supported in achieving their full potential. We provide pupils with the opportunity to experience, understand and celebrate diversity, actively tackle all instances of unlawful discrimination and strive for equality of opportunity and good relationships to permeate all aspects of school life, including:

- attainment, progress and assessment
- behaviour, discipline and exclusion
- admission and attendance
- curriculum
- personal development and pastoral care
- teaching and learning
- working with parents / carers and communities
- staff recruitment and professional development

Safeguarding Statement

- The named person with responsibility for child protection in our school is the Assistant Head Teacher, who liaises with a named Governor. We will follow the procedures for child protection drawn up by the LA and the Governing Body.
- If any person suspects that a child in the school may be the victim of abuse, they should not try to investigate, but should immediately inform the Head Teacher about their concerns
- When investigating incidents or suspicions, the person responsible in the school for child protection works closely with social care, and with the Gloucestershire Safeguarding Children Board. We handle all such cases with sensitivity, and we attach paramount importance to the interests of the child.
- We require all adults who work in school to have their application vetted by the police, in order to check that there is no evidence of offences involving children or abuse. (DBS, Barred and Prohibition Checks).
- All the adults in our school share responsibility for keeping our children safe. We may, on occasion, report concerns which, on investigation, prove unfounded. It is better to be safe than sorry and we trust that parents and carers, while they will naturally be upset, will nevertheless accept that the school acted in the child's best interests.

Accessibility Statement

We will strive to ensure that the ethos of the school is such that everyone is equally valued and treated with respect. Pupils will be provided with opportunities to experience, understand and value diversity.

All pupils should have access to an appropriate education that gives them the opportunity to achieve their personal potential, whatever their abilities and needs might be.

Curriculum

Our GEM Threads

Values: Our children will adopt and celebrate the school's GEM Powers

Knowledge: Our children will learn an enriched and ambitious curriculum

Progression: Our children will Do more, Know more and Remember more

Language & Vocabulary: Our children will use Oracy to be confident communicators

Experience rich: Our children will receive culturally diverse opportunities to thrive.

Computing Intent

The use of information and communication technology is an integral part of the National Curriculum and is a key skill for everyday life. Computers, tablets, programmable robots, digital and video cameras are a few of the tools that can be used to acquire, organise, store, manipulate, interpret, communicate and present information. At CPMSF, we recognise that pupils are entitled to quality hardware and software and a structured and progressive approach to the learning of the skills needed to enable them to use it effectively. The aim of this document is to provide an overview to the Computing Curriculum across the Key Stages. Computing skills are a major factor in enabling children to be confident, creative and independent learners and it is our intention that children have every opportunity available to allow them to achieve this.

In computing, we aim for all pupils to:

- experience a relevant, challenging and enjoyable curriculum for computing.
- meet the requirements of the National Curriculum programmes of study for computing.
- use computing as a tool to enhance learning throughout the curriculum.
- respond to new developments in technology.
- be equipped with the confidence and capability to use computing throughout their later life.
- learn computing in other areas of the curriculum.
- develop their understanding of how to use computing safely and responsibly (with the addition of remote learning).

Computing Implementation

Knowledge and skills-based implementation:

It is important in the foundation stage to give children a broad, play-based experience of computing in a range of contexts, including outdoor play. Computing is not just about computers. Early years learning environments should feature computing scenarios based on experience in the real world, such as in role play. Children gain confidence, control and language skills through opportunities to 'paint' on the whiteboard or program a toy. Recording devices can support children to develop their communication skills. This is particularly useful with children who have English as an additional language. The use of problem solving via computational thinking is introduced to start children thinking computationally.

- In years 1-6, Computing learning is planned from the National Curriculum statements and incorporated into termly year group topics that include learning about and understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- create and debug simple programs
- use logical reasoning to predict the behaviour of simple programs
- use technology purposefully to create, organise, store, manipulate and retrieve digital content
- recognise common uses of information technology beyond school
- use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.
- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content

- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

At CPMSF the computing curriculum incorporates cross curricular links and discrete computing skills. Computing should be taught as part of our creative curriculum, while still teaching the discrete skills required. Children in Key Stage 1 and Key Stage 2 should all spend at least 1 hour per week studying computing. Children will spend additional time using computing to support other subjects.

Progression led implementation:

- We have used the best research to create a well sequenced and progressive curriculum map containing the key concepts children need to be procedurally fluent and to work and think like computing professionals.

The key concepts in computing we plan a progression for are as follows:

- *Problem solving and logical thinking*
- *Creative Content*
- *Digital literacy*

In order to ensure progression and continuity throughout the school, the school has developed a curriculum map which outlines curriculum coverage, progression and context of computing as a discreet subject and across the curriculum.

Language and Vocabulary rich implementation:

At CPMSF, to enhance the teaching and learning of all curriculum areas within the school, teachers employ a range of strategies including:

- *Demonstrating to the whole class/group using the IWB.*
- *Discussion with the whole class/group.*
- *Individual or paired working.*
- *Collaborative group work.*
- *Encouraging pupils to demonstrate new skills to others*

At CPMSF, we recognise the need for children to understand the purpose of their work and therefore we take every opportunity to share their computing work in school and on the school website where there are galleries of children's work for each class.

Within our Computing teaching, children will use Oracy to be confident communicators. They will talk about and discuss writing, debugging and designing programs. They will answer and ask questions about coding and processes and use a range of computational terminology to communicate with others.

Experience rich implementation:

Many Computing topics are introduced with a launch activity which may include an experience of the end goal of a unit: for example a game made with coding, a video or introduction to a new piece of technology such as Ohbots. We also have visitors come into school to teach new skills whilst also stretching foundation knowledge learnt in previous lessons. There are lots of opportunities for children to learn complicated concepts through hands on and visual examples whilst making them contextual to their real life environment and where they might see these processes and ideas.

Computing Impact

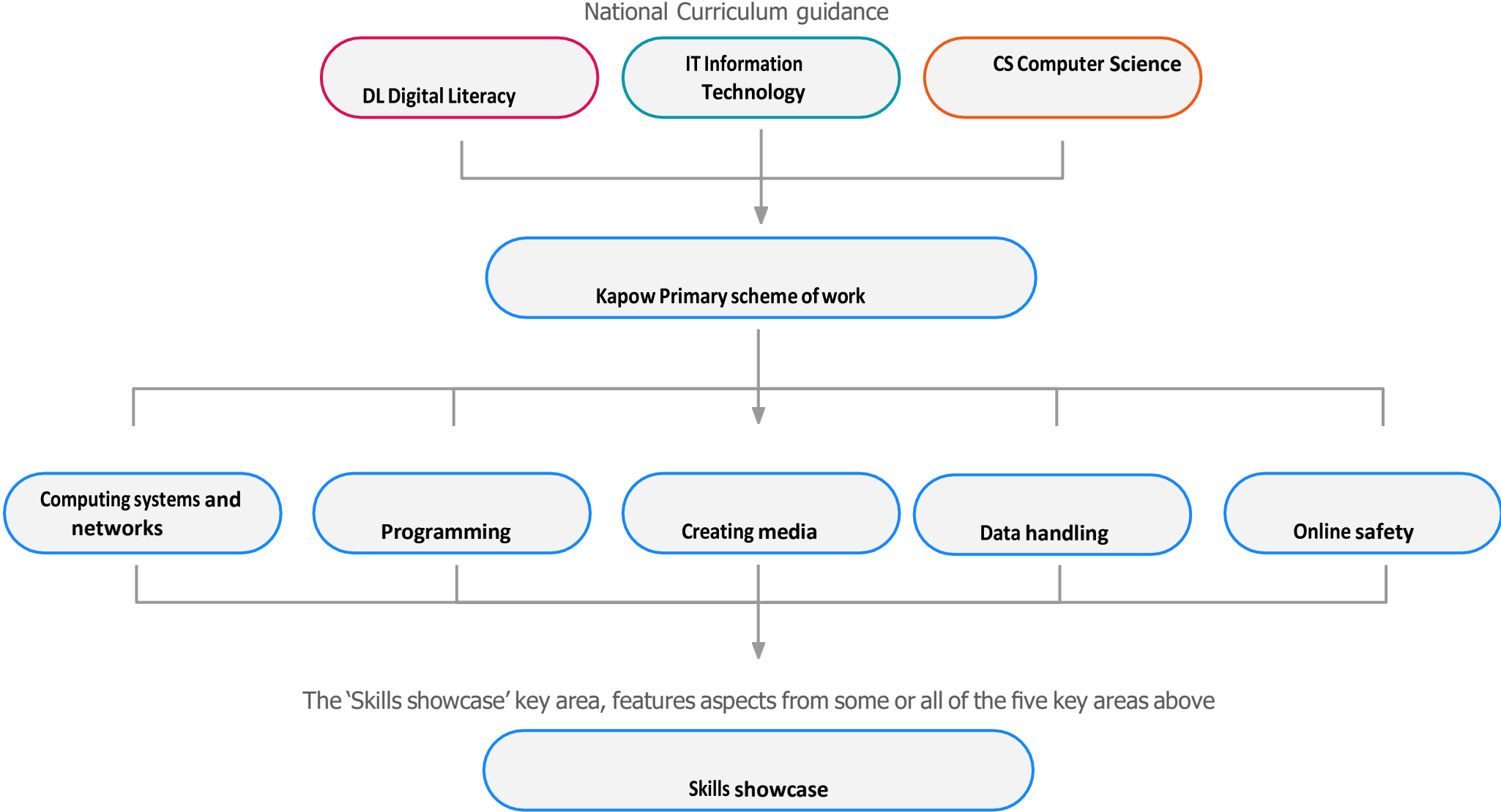
Each term the SciCo KAT meet several times to discuss the progress and learning being undertaken and progress made throughout the school. During the year, the KAT scrutinizes planning, carry out learning walks, book looks, pupil conferences and report to the Senior Leadership Team and class teachers.

At the end of each term, teachers assess individual children's progress against the appropriate National Curriculum statements for the aspects that have been taught.

At CPMSF children will be encouraged to evaluate both their work and the computer effectiveness. The nature of computing as a tool means that there will be many opportunities for links with other subjects.

Our children, using our Gem Threads, will receive a high quality Computing curriculum that will enable them to be confident, articulate and computational thinkers.

How is Kapow Primary's Computing scheme of work organised?



	EYFS	Year 1	Year 2
Hardware	<p>Learning how to operate a camera to take photographs of meaningful creations or moments.</p> <p>Learning how to explore and tinker with hardware to develop familiarity and introduce relevant vocabulary.</p> <p>Recognising and identifying familiar letters and numbers on a keyboard.</p> <p>Developing basic mouse skills such as moving and clicking.</p>	<p>Learning how to operate a camera or tablet to take photos and videos.</p> <p>Learning how to explore and tinker with hardware to find out how it works.</p> <p>Learning where keys are located on the keyboard.</p>	<p>Understanding what a computer is and that it's made up of different components.</p> <p>Recognising that buttons cause effects and that technology follows instructions.</p> <p>Learning how we know that technology is doing what we want it to do via its output.</p> <p>Developing confidence with the keyboard and the basics of touch typing.</p>
Networks and data representation	N/A	N/A	N/A

	EYFS	Year 1	Year 2
Using software	Using a simple online paint tool to create digital art.	Using a basic range of tools within graphic editing software. Taking and editing photographs. Developing control of the mouse through dragging, clicking and resizing of images to create different effects. Developing understanding of different software tools.	Developing word processing skills, including altering text, copying and pasting and using keyboard shortcuts. Using word processing software to type and reformat text. Using software (and unplugged means) to create story animations. Creating and labelling images.
Using email and internet searches	N/A	Recognising devices that are connected to the internet. Understanding that we are connected to others when using the internet.	Searching for appropriate images to use in a document.
Using data	Representing data through sorting and categorising objects in unplugged scenarios. Exploring branch databases through physical games.	N/A	Collecting and inputting data into a spreadsheet. Interpreting data from a spreadsheet.
Wider use of technology	N/A	Recognising common uses of information technology, including beyond school. Understanding some of the ways we can use the internet.	Learning how computers are used in the wider world.

	Year 3	Year 4	Year 5	Year 6
Computational thinking	<p>Using decomposition to explain the parts of a laptop computer.</p> <p>Using decomposition to explore the code behind an animation.</p> <p>Using repetition in programs.</p> <p>Using logical reasoning to explain how simple algorithms work.</p> <p>Explaining the purpose of an algorithm.</p> <p>Forming algorithms independently.</p>	<p>Using decomposition to solve a problem by finding out what code was used.</p> <p>Using decomposition to understand the purpose of a script of code.</p> <p>Identifying patterns through unplugged activities.</p> <p>Using abstraction to identify the important parts when completing both plugged and unplugged activities.</p>	<p>Decomposing animations into a series of images.</p> <p>Decomposing a story to be able to plan a program to tell a story.</p> <p>Predicting how software will work based on previous experience.</p> <p>Writing more complex algorithms for a purpose.</p>	<p>Decomposing a program into an algorithm.</p> <p>Using past experiences to help solve new problems.</p> <p>Writing increasingly complex algorithms for a purpose.</p>
Programming	<p>Using logical thinking to explore more complex software; predicting, testing and explaining what it does.</p> <p>Incorporating loops to make code more efficient.</p> <p>Continuing existing code.</p>	<p>Creating algorithms for a specific purpose.</p> <p>Coding a simple game.</p> <p>Using abstraction and pattern recognition to modify code.</p> <p>Incorporating variables to make code more efficient.</p>	<p>Iterating and developing their programming as they work.</p> <p>Confidently using loops in their programming.</p> <p>Using a more systematic approach to debugging code, justifying what is wrong and how it can be corrected.</p> <p>Writing code to create a desired effect.</p> <p>Using a range of programming commands.</p> <p>Using repetition within a program.</p>	<p>Debugging quickly and effectively to make a program more efficient.</p> <p>Remixing existing code to explore a problem.</p> <p>Using and adapting nested loops.</p> <p>Programming using the language Python.</p> <p>Changing a program to personalise it.</p> <p>Evaluating code to understand its purpose.</p> <p>Predicting code and adapting it to a chosen purpose.</p>

	Year 3	Year 4	Year 5	Year 6
Hardware	<p>Understanding what the different components of a computer do and how they work together.</p> <p>Drawing comparisons across different types of computers.</p> <p>Learning about the purpose of routers.</p>	<p>Using tablets or digital cameras to film a weather forecast.</p> <p>Understanding that weather stations use sensors to gather and record data which predicts the weather.</p>	<p>Learning that external devices can be programmed by a separate computer.</p>	<p>Learning about the history of computers and how they have evolved over time.</p> <p>Using the understanding of historic computers to design a computer of the future.</p> <p>Understanding and identifying barcodes, QR codes and RFID.</p> <p>Identifying devices and applications that can scan or read barcodes, QR codes and RFID.</p>
Networks and data representation	<p>Understanding the role of the key components of a network.</p> <p>Identifying the key components within a network, including whether they are wired or wireless.</p> <p>Understanding that websites and videos are files that are shared from one computer to another.</p> <p>Learning about the role of packets.</p> <p>Understanding how networks work and their purpose.</p> <p>Recognising links between networks and the internet.</p> <p>Learning how data is transferred.</p>	<p>Understanding that computer networks provide multiple services, such as the World Wide Web, and opportunities for communication and collaboration.</p>	<p>Learning the vocabulary associated with data: data and transmit.</p> <p>Recognising that computers transfer data in binary and understanding simple binary addition.</p> <p>Learning that messages can be sent by binary code, reading binary up to eight characters and carrying out binary calculations.</p>	<p>N/A</p>

	EYFS	Year 1	Year 2
Computational thinking	Using logical reasoning to understand simple instructions and predict the outcome.	<p>Learning that decomposition means breaking a problem down into smaller parts.</p> <p>Using decomposition to solve unplugged challenges.</p> <p>Using logical reasoning to predict the behaviour of simple programs.</p> <p>Developing the skills associated with sequencing in unplugged activities.</p> <p>Following a basic set of instructions.</p> <p>Assembling instructions into a simple algorithm.</p>	<p>Articulating what decomposition is.</p> <p>Decomposing a game to predict the algorithms used to create it.</p> <p>Learning that there are different levels of abstraction.</p> <p>Explaining what an algorithm is. Following an algorithm.</p> <p>Creating a clear and precise algorithm.</p>
Programming	<p>Following instructions as part of practical activities and games.</p> <p>Learning to give simple instructions.</p> <p>Learning to debug instructions, with the help of an adult, when things go wrong.</p>	<p>Programming a Floor robot to follow a planned route.</p> <p>Learning to debug instructions when things go wrong.</p> <p>Learning to debug an algorithm in an unplugged scenario.</p>	<p>Using logical thinking to explore software, predicting, testing and explaining what it does.</p> <p>Using an algorithm to write a basic computer program.</p>

	Year 3	Year 4	Year 5	Year 6
Using software	<p>Taking photographs and recording video to tell a story.</p> <p>Using software to edit and enhance their video adding music, sounds and text on screen with transitions.</p>	<p>Use online software for documents, presentations, forms and spreadsheets.</p> <p>Using software to work collaboratively with others.</p>	<p>Using logical thinking to explore software more independently, making predictions based on their previous experience.</p> <p>Using software programme Sonic Pi/Scratch to create music.</p> <p>Using the video editing software to animate.</p> <p>Identify ways to improve and edit programs, videos, images etc.</p> <p>Independently learning how to use 3D design software package TinkerCAD.</p>	<p>Using logical thinking to explore software independently, iterating ideas and testing continuously.</p> <p>Using search and word processing skills to create a presentation.</p>
Using email and internet searches	N/A	<p>Understanding why some results come before others when searching.</p> <p>Understanding that information found by searching the internet is not all grounded in fact.</p> <p>Searching the internet for data.</p>	<p>Developing searching skills to help find relevant information on the internet.</p>	<p>Understanding how search engines work.</p>

	Year 3	Year 4	Year 5	Year 6
Using data	N/A	<p>Understanding that data is used to forecast weather.</p> <p>Recording data in a spreadsheet independently.</p> <p>Sorting data in a spreadsheet to compare using the 'sort by...' option.</p> <p>Designing a device which gathers and records sensor data.</p>	<p>Understanding how data is collected in remote or dangerous places.</p> <p>Understanding how data might be used to tell us about a location.</p>	<p>Understanding how barcodes, QR codes and RFID work.</p> <p>Gathering and analysing data in real time.</p> <p>Creating formulas and sorting data within spreadsheets.</p>
Wider use of technology	Recognising how social media platforms are used to interact.	Understanding that software can be used collaboratively online to work as a team.	Learn about different forms of communication that have developed with the use of technology.	Learning how 'big data' can be used to solve a problem or improve efficiency.

EYFS	Year 1	Year 2	
<p>Recognising that a range of technology is used for different purposes.</p> <p>Learning to log in and log out.</p>	<p>Logging in and out and saving work on their own account.</p> <p>When using the internet to search for images, learning what to do if they come across something online that worries them or makes them feel uncomfortable.</p> <p>Understanding how to interact safely with others online.</p> <p>Recognising how actions on the internet can affect others.</p> <p>Recognising what a digital footprint is and how to be careful about what we post.</p>	<p>Learning how to create a strong password.</p> <p>Understanding 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</p> <p>Identifying whether information is safe or unsafe to be shared online.</p> <p>Learning to be respectful of others when sharing online and ask for their permission before sharing content.</p> <p>Learning strategies for checking if something they read online is true.</p>	
Year 3	Year 4	Year 5	Year 6
<p>Recognising that different information is shared online including facts, beliefs and opinions.</p> <p>Learning how to identify reliable information when searching online.</p> <p>Learning how to stay safe on social media.</p> <p>Considering the impact technology can have on mood.</p> <p>Learning about cyberbullying.</p> <p>Learning that not all emails are genuine, recognising when an email might be fake and what to do about it.</p>	<p>Recognising that information on the internet might not be true or correct and that some sources are more trustworthy than others.</p> <p>Learning to make judgements about the accuracy of online searches.</p> <p>Identifying forms of advertising online.</p> <p>Recognising what appropriate behaviour is when collaborating with others online.</p> <p>Reflecting on the positives and negatives of time spent online.</p> <p>Identifying respectful and disrespectful online behaviour.</p>	<p>Identifying possible dangers online and learning how to stay safe.</p> <p>Evaluating the pros and cons of online communication.</p> <p>Recognising that information on the internet might not be true or correct and learning ways of checking validity.</p> <p>Learning what to do if they experience bullying online.</p> <p>Learning to use an online community safely</p>	<p>Learning about the positive and negative impacts of sharing online.</p> <p>Learning strategies to create a positive online reputation.</p> <p>Understanding the importance of secure passwords and how to create them.</p> <p>Learning strategies to capture evidence of online bullying in order to seek help.</p> <p>Using search engines safely and effectively.</p> <p>Recognising that updated software can help to prevent data corruption and hacking.</p>

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>To be able to understand what a computer keyboard is and recognising some letters and numbers.</p> <p>To know that a mouse can be used to click, drag and create simple drawings.</p> <p>To know that to use a computer you need to log in to it and then log out at the end of your session.</p> <p>To know that different types of technology can be found at home and in school.</p> <p>To know that you can take simple photographs with a camera or iPad.</p> <p>To know that you must hold the camera still and ensure the subject is in the shot to take a photo.</p>	<p>To know that "log in and log out" means to begin and end a connection with a computer.</p> <p>To 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.</p> <p>To know that passwords are important for security.</p> <p>To know that when we create something on a computer it can be more easily saved and shared than a paper version.</p> <p>To know some of the simple graphic design features of a piece of online software.</p>	<p>To know the difference between a desktop and laptop computer.</p> <p>To know that people control technology.</p> <p>To know that buttons are a form of input that give a computer an instruction about what to do (output).</p> <p>To know that computers often work together.</p>	<p>To know what a tablet is and how it is different from a laptop/desktop computer.</p> <p>To understand what a network is and how a school network might be organised.</p> <p>To know how the internet uses networks to share files.</p> <p>To know what a packet is and why it is important for website data transfer.</p> <p>To know the roles that inputs and outputs play on computers.</p> <p>To know what some of the different components inside a computer are e.g. CPU, RAM, hard drive, and how they work together.</p>	<p>To understand that software can be used collaboratively online to work as a team.</p> <p>To know that you can use images, text, transitions and animation in presentation slides.</p>	<p>To know how search engines work.</p> <p>To understand that anyone can create a website and therefore we should take steps to check the validity of websites.</p> <p>To understand what copyright is.</p> <p>To know the difference between ROM and RAM.</p>	<p>To understand the importance of having a secure password and what "brute force hacking" is.</p> <p>To know that the first computers were created at Bletchley Park to crack the Enigma code to help the war effort in World War 2.</p>

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>To know that being able to follow and give simple instructions is important in computing.</p> <p>To understand that it is important for instructions to be in the right order.</p> <p>To understand why a set of instructions may have gone wrong.</p>	<p>To understand that an algorithm is when instructions are put in an exact order.</p> <p>To understand that decomposition means breaking a problem into manageable chunks and that it is important in computing.</p> <p>To know that we call errors in an algorithm 'bugs' and fixing these 'debugging'.</p> <p>To understand the basic functions of a Bee-Bot.</p> <p>To know that you can use a camera/tablet to make simple videos.</p> <p>To know that algorithms move a bee-bot accurately to a chosen destination.</p>	<p>To understand what machine learning is and how that enables computers to make predictions.</p> <p>To know that abstraction is the removing of unnecessary detail to help solve a problem.</p> <p>To know that coding is writing in a special language so that the computer understands what to do.</p> <p>To understand that the character in ScratchJr is controlled by the programming blocks.</p> <p>To know that you can write a program to create a musical instrument or tell a joke.</p>	<p>To know that Scratch is a programming language and some of its basic functions.</p> <p>To understand how to use loops to improve programming.</p> <p>To understand how decomposition is used in programming.</p> <p>To understand that you can remix and adapt existing code.</p>	<p>To understand that a variable is a value that can change (depending on conditions) and know that you can create them in Scratch.</p> <p>To know what a conditional statement is in programming.</p> <p>To understand that pattern recognition means identifying patterns to help them work out how the code works.</p> <p>To understand that algorithms can be used for a number of purposes e.g. animation, games design etc.</p>	<p>To know that a soundtrack is music for a film/video and that one way of composing these is on programming software.</p> <p>To understand that using loops can make the process of writing music simpler and more effective.</p>	<p>To know that there are text-based programming languages such as Logo and Python.</p> <p>To know that nested loops are loops inside of loops.</p>

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
N/A	<p>To understand that holding the camera still and considering angles and light are important to take good pictures.</p> <p>To know that you can edit, crop and filter photographs.</p> <p>To know how to search safely for images online.</p>	N/A	<p>To know that different types of camera shots can make my photos or videos look more effective.</p> <p>To know that I can edit photos and videos using film editing software.</p> <p>To understand that I can add transitions and text to my video.</p>	N/A	<p>To understand that stop motion animation is an animation filmed one frame at a time using models, and with tiny changes between each photograph.</p> <p>To know that decomposition of an idea is important when creating stop-motion animations.</p> <p>To know that editing is an important feature of making and improving a stop motion animation.</p>	N/A

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>To know that sorting objects into various categories can help you locate information.</p> <p>To know that using yes/no questions to find an answer is a branching database.</p>	N/A	<p>To understand that you can enter simple data into a spreadsheet.</p> <p>To understand what steps you need to take to create an algorithm.</p> <p>To know what data to use to answer certain questions.</p> <p>To know that computers can be used to monitor supplies.</p>	N/A	<p>To 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'.</p> <p>To know that a weather machine is an automated machine that responds to sensor data.</p> <p>To understand that weather forecasters use specific language, expression and pre-prepared scripts to help create weather forecast films.</p>	<p>To know that Mars Rover is a motor vehicle that collects data from space by taking photos and examining samples of rock.</p> <p>To know what numbers using binary code look like and be able to identify how messages can be sent in this format.</p> <p>To know what simple operations can be used to calculate bit patterns.</p>	<p>To know that data contained within barcodes and QR codes can be used by computers.</p> <p>To know that Radio Frequency Identification (RFID) is a more private way of transmitting data.</p> <p>To know that data is often encrypted so that even if it is stolen it is not useful to the thief.</p>

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
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<p>N/A</p>	<p>To know that the internet is many devices connected to one another.</p> <p>To know that you should tell a trusted adult if you feel unsafe or worried online.</p> <p>To know that people you do not know on the internet (online) are strangers and are not always who they say they are.</p> <p>To know that to stay safe online it is important to keep personal information safe.</p> <p>To know that 'sharing online means giving something specific to someone else via the internet and 'posting' online means placing information on the internet.</p>	<p>To understand the difference between online and offline.</p> <p>To understand what information I should not post online.</p> <p>To know what the techniques are for creating a strong password.</p> <p>To know that you should ask permission from others before sharing about them online and that they have the right to say 'no.'</p> <p>To understand that not everything I see or read online is true.</p>	<p>To know that not everything on the internet is true: people share facts, beliefs and opinions online.</p> <p>To understand that the internet can affect your moods and feelings.</p> <p>To know that privacy settings limit who can access your important personal information Information, such as your name, age, gender etc.</p> <p>To know what social media is and that age restrictions apply.</p>	<p>To understand some of the methods used to encourage people to buy things online.</p> <p>To understand that technology can be designed to act like or impersonate living things.</p> <p>To understand that technology can be a distraction and identify when someone might need to limit the amount of time spent using technology.</p> <p>To understand what behaviours are appropriate in order to stay safe and be respectful online.</p>	<p>To know different ways we can communicate online.</p> <p>To understand how online information can be used to form judgements.</p> <p>To understand some ways to deal with online bullying.</p> <p>To know that apps require permission to access private information and that you can alter the permissions.</p> <p>To know where I can go for support if I am being bullied online or feel that my health is being affected by time online.</p>	<p>To know that a 'digital footprint' means the information that exists on the internet as a result of a person's online activities.</p> <p>To know what steps required to capture bullying content as evidence.</p> <p>To understand that it is important to manage personal passwords effectively.</p> <p>To understand what online reputation means to have a positive online reputation.</p> <p>To know some common online scams.</p>
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