EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
EYFS goal: Personal, Social and Emotional Development -Manging Self; - Be confident to try new activities and show independence, resilience and perseverance in the face of challenge; - Explain the reasons for rules, know right from wrong and try to behave accordingly. Talk about good & bad choices in real life e.g. taking turns, saying kind things, helping others, telling an adult if something upsets you. Understand that they must ask an adult whether they can use a game or app. Talk about good and bad choices when using websites — being kind, telling a grown up if something upsets us & keeping ourselves safe by keeping information private. Recognise who they can ask for help and know when they need help.	Self-image and identity Online relationships Online reputation Online bullying Managing online information Health, well-being and lifestyle Privacy and security Copyright and ownership	Self-image and identity Online relationships Online reputation Online bullying Managing online information Health, well-being and lifestyle Privacy and security Copyright and ownership	Self-image and identity Online relationships Online reputation Online bullying Managing online information Health, well-being and lifestyle Privacy and security Copyright and ownership	Self-image and identity Online relationships Online reputation Online bullying Managing online information Health, well-being and lifestyle Privacy and security Copyright and ownership	Self-image and identity Online relationships Online reputation Online bullying Managing online information Health, well-being and lifestyle Privacy and security Copyright and ownership	Self-image and identity Online relationships Online reputation Online bullying Managing online information Health, well-being and lifestyle Privacy and security Copyright and ownership
EYFS goal: Personal, Social and Emotional Development -Manging Self; - Be confident to try new activities and show independence, resilience and perseverance in the face of challenge; - Explain the reasons for rules, know right from wrong and try to behave accordingly.	 Technology around us To identify technology To identify a computer and its main parts To use a mouse in different ways 	Information technology around us - To recognise the uses and features of information technology - To identify information	 Connecting computers To explain how digital devices function To identify input and output devices 	The internet - To describe how networks physically connect to other networks	- To explain that computers can be connected together to form systems	 Communication and collaboration Communication and collaboration To explain the importance of internet addresses

	-Begin to identify technology in their environmentRecognise purposes for using technology in school and at home Understand that things they create belong to them and can be shared with others using	To use a keyboard to type To use the keyboard to edit text To create rules for using technology responsibly	technology in the home To identify information technology beyond school To explain how information technology benefits us To show how to use information	 To recognise how digital devices can change the way we work To explain how a computer network can be used to share information To explore how digital devices can be connected To recognise the 	 To recognise how networked devices make up the internet To outline how websites can be shared via the World Wide Web To describe how content can be added and accessed on the World Wide Web 	 To recognise the role of computer systems in our lives To experiment with search engines To describe how search engines select results To explain how search results are ranked To recognise why the 	 To recognise how data is transferred across the internet To explain how sharing information online can help people to work together To evaluate different ways of working together online To recognise how we
	- Recognise that they can use the Internet to play and learnRole play using technologyHelp adults operate equipment around schoolOperate simple equipment independently.		- To recognise that choices are made when using information technology	of a network	content of the WWW is created by people - To evaluate the consequences of unreliable content	important, and to whom	technology - To evaluate different methods of online communication
Creating media	Expressive Art and Design – Creating with Materials; - Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; - Develop an interest in ICT by using age appropriate websites or programs Use a mouse to arrange objects on a screen.	Digital painting To describe what different freehand tools do To use the shape tool and the line tools To make careful choices when painting a digital picture To explain why I chose the tools I used	Digital photography To use a digital device to take a photograph To make choices when taking a photograph To describe what makes a good photograph To decide how photographs can be improved To use tools to change an image	Stop frame animation - To explain that animation is a sequence of drawings or photographs - To relate animated movement with a sequence of images - To plan an animation - To identify the need to work consistently and carefully	Audio Production - To identify that sound can be recorded - To explain that audio recordings can be edited - To recognise the different parts of creating a podcast project - To apply audio editing skills independently	Video Production To explain what makes a video effective To use a digital device to record video To capture video using a range of techniques To create a storyboard To identify that video can be improved	Webpage creation To review an existing website and consider its structure To plan the features of a web page To consider the ownership and use of images (copyright) To recognise the need to preview pages To outline the need for a navigation path

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-With support, use a keyboard for simple typingInteract and explore their environment using different ICT equipment e.g. cameras, microscopes, visualisersCollect information, e.g., by taking photographs or collecting object	 To use a computer on my own to paint a picture To compare painting a picture on a computer and on paper Digital writing To use a computer to write To add and remove text on a computer To identify that the look of text can be changed on a computer To make careful choices when changing text To explain why I used the tools that I chose To compare typing on a computer with writing on paper 	- To recognise that photos can be changed Digital music To say how music can make us feel To identify that there are patterns in music To experiment with sound using a computer To use a computer to create a musical pattern To create music for a purpose To review and refine our computer work	 To review and improve an animation To evaluate the impact of adding other media to an animation Desktop Publishing To recognise how text and images convey information To recognise that text and layout can be edited To choose appropriate page settings To add content to a desktop publishing publication To consider how different layouts can suit different purposes To consider the benefits of desktop publishing 	 To combine audio to enhance my podcast project To evaluate the effective use of audio Photo editing To explain that the composition of digital images can be changed To explain that colours can be changed in digital images To explain how cloning can be used in photo editing To explain that images can be combined To combine images for a purpose To evaluate how changes can improve an image 	through reshooting and editing To consider the impact of the choices made when making and sharing a video Introduction to vector graphics To identify that drawing tools can be used to produce different outcomes To create a vector drawing by combining shapes To use tools to achieve a desired effect To recognise that vector drawings consist of layers To group objects to make them easier to work with To apply what I have learned about vector drawings	 To recognise the implications of linking to content owned by other people 3D Modelling To recognise that you can work in three dimensions on a computer To identify that digital 3D objects can be modified To recognise that objects can be combined in a 3D model To create a 3D model for a given purpose To plan my own 3D model To create my own digital 3D model
Communication and Language – Listening, Attention and Understanding; - Listen attentively and respond to what they hear with relevant questions, comments and actions when being read to and during whole class discussions and small group interactions; - Make comments about what they have heard and ask questions to clarify their understanding;	Grouping data - To label objects - To identify that objects can be counted - To describe objects in different ways - To count objects with the same properties - To compare groups of objects	Pictograms - To recognise that we can count and compare objects using tally charts - To recognise that objects can be represented as pictures - To create a pictogram	 Branching databases To create questions with yes/no answers To identify the object attributes needed to collect relevant data To create a branching database To explain why it is helpful for a 	Data logging To explain that data gathered over time can be used to answer questions To use a digital device to collect data automatically To explain that a data logger collects	 Flat-file databases To use a form to record information To compare paper and computer-based databases To outline how grouping and then sorting data allows us to answer questions 	Introduction to spreadsheets - To create a data set in a spreadsheet - To build a data set in a spreadsheet - To explain that formulas can be used to produce calculated data

-Begin to sort, classify or group various objects progressing from practical activities to the use of ICT e.g., practically sorting fruit into colours, types or shapes, and then onscreen. -Use ICT to sort and sequence objects on a screen or interactive whiteboard. -Produce simple pictograms with help. - Collect information as	- To answer questions about groups of objects	 To select objects by attribute and make comparisons To recognise that people can be described by attributes To explain that we can present information using a computer 	database to be well structured To plan the structure of a branching database To independently create an identification tool	'data points' from sensors over time - To recognise how a computer can help us analyse data - To identify the data needed to answer questions - To use data from sensors to answer questions	 To explain that tools can be used to select specific data To explain that computer programs can be used to compare data visually To use a real-world database to answer questions 	 To apply formulas to data To create a spreadsheet to plan an event To choose suitable ways to present data
photos or sound files. Communication and Language – Listening, Attention and Understanding; - Listen attentively and respond to what they hear with relevant questions, comments and actions when being read to and during whole class discussions and small group interactions; - Make comments about what they have heard and ask questions to clarify their understanding; - Help adults operate equipment around the school Use simple software to make things happen - Press buttons on a floor robot and talk about the movements - Explore options and make choices with toys, software and websites	Moving a robot To explain what a given command will do To act out a given word To combine forwards and backwards commands to make a sequence To combine four direction commands to make sequences To plan a simple program To find more than one solution to a problem Programming animations	Robot algorithms To describe a series of instructions as a sequence To explain what happens when we change the order of instructions To use logical reasoning to predict the outcome of a program To explain that programming projects can have code and artwork To design an algorithm To create and debug a program that I have written	Sequencing Sounds - To explore a new programming environment - To identify that commands have an outcome - To explain that a program has a start - To recognise that a sequence of commands can have an order - To change the appearance of my project - To create a project from a task description Events and actions in programs	Repetition in shapes To identify that accuracy in programming is important To create a program in a text-based language To explain what 'repeat' means To modify a count-controlled loop to produce a given outcome To decompose a task into small steps To create a program that uses count-controlled loops to produce a given outcome Repetition in games	has been met To design a physical project that includes selection To create a program that controls a physical computing project	Variables in games To define a 'variable' as something that is changeable To explain why a variable is used in a program To choose how to improve a game by using variables To design a project that builds on a given example To use my design to create a project To evaluate my project Sensing movement To create a program to run on a controllable device

Computing progression of skills

-Explore a variety of
controlled and
programmable devices.
-Explore simple
simulations, finding out
what happened.

- To choose a command for a given purpose
- To show that a series of commands can be joined together
- To identify the effect of changing a value
- To explain that each sprite has its own instructions
- To design the parts of a project
- To use my algorithm to create a program

- To explain that a sequence of commands has a start
- To explain that a sequence of commands has an outcome
- To create a program using a given design
- To change a given design
- To create a program using my own design
- To decide how my project can be improved

- To explain how a sprite moves in an existing project
- To create a program to move a sprite in four directions
- To adapt a program to a new context
- To develop my program by adding features
- To identify and fix bugs in a program
- To design and create a maze-based challenge

- To develop the use of count-controlled loops in a different programming environment
- To explain that in programming there are infinite loops and count controlled loops
- To develop a design that includes two or more loops which run at the same time
- To modify an infinite loop in a given program
- To design a project that includes repetition
- To create a project that includes repetition

Selection in quizzes

- To explain how selection is used in computer programs
- To relate that a conditional statement connects a condition to an outcome
- To explain how selection directs the flow of a program
- To design a program which uses selection
- To create a program which uses selectionTo evaluate my

program

- To explain that selection can control the flow of a program
- To update a variable with a user input
- To use a conditional statement to compare a variable to a value
- To design a project that uses inputs and outputs on a controllable device
- To develop a program to use inputs and outputs on a controllable device



