Computing Progression Document - Computing systems & Networks

EYFS and KS1				
FS1	**FS2**	**Year 1**	**Year 2**	**Year 2**
Computer systems & networks **-Explore hardware** **(Adult supported)**	**Computer systems & networks** **-Explore hardware** **(Adult supported)**	**Computing systems and networks** **Improving mouse skills**	**Computing systems and networks** **What is a computer?**	**Computing systems and network** **Word Processing – Microsoft Office 365**
-To explore technology (CD player, remotes, telephones, mechanical toys -To identify where technology is used in places, they are familiar – Homes, school -To operate a basic camera and take photos -To take selfie photographs and create a class gallery	-To explore technology (CD player, remotes, telephones, mechanical toys -To identify where technology is used in places, they are familiar – Homes, school -To operate a basic camera and take photos -To take selfie photographs and create a class gallery	**1.Logging In - To log in to a computer and access a website** -To recognise what we mean by a computer -To understand why we need to log in to a computer -To log in and out of a computer account	**1.Computer Parts** **To recognise the parts of a computer** -To name the key parts of a computer -To explain the purpose of different computer parts -To explain that a keyboard contains lots of buttons	**1.Getting to know the keyboard** **To begin to learn to touch type** -To find keys on a computer keyboard -To identify the home keys on a computer -To understand how to type capital letters using ‘shift’
Summer 2 – To explore everyday technology in play e.g. phones and cameras Use everyday technology correctly in play e.g. phones, cameras	**Spring 1-** To explore technology such as beebots and mechanical toys To explain the different uses of technology e.g. phones, cameras	**2.Click & Drag Skills - To develop mouse skills** -To navigate a computer using a mouse -To understand what we mean by ‘click’ and ‘drag’ -To use the fill and stamp tools in Sketchpad	**2.Inputs - To recognise how technology is controlled** -To know that people control technology -To know that technology follows instructions -To predict what technology will do	**2.Getting started with work processing - To understand how to use a word processor** -To type a sentence into a word processor -To select all the text and make it bold or in italics -To explain how to make other changes using a word processor
		3.Drawing Shapes - -To use mouse skills to draw and edit shapes -To click and drag objects to change their size or position	**3.Technology Safari** **To recognise technology** -To suggest what might have a computer inside -To explain why I think this	**3. Newspaper Writer - To understand how to add images to a text document** -To use keyboard shortcuts to alter text

Computing Progression Document - Computing systems & Networks

		-To use a mouse to carefully position shapes -To move shapes in front of or behind each other	-To suggest what the technology does	-To know how to search for and find an appropriate image -To import and alter an image in a document
		4.Drawing a Story - To draw a scene from a story using digital tools -To identify key parts of a story -To use drag and drop to move and resize images -To use a variety of tools to create different effects	**4.Intervention - To create a design for an invention** -To include an input and output as part of my invention -To explain how it works, including how to control it -To label my design clearly	**4. Poetry Book - To create a poetry book using sources from the internet** -To understand how to use text styles to create headings and subtitles -To copy and paste text into a document -To understand the importance of crediting source materials
		5.Self-Portrait - To create a self-portrait using digital techniques -To identify different facial features -To use click and drag to create and layer shapes -To resize, move and change the order of shapes	**5.Real World Role Play -To understand the role of computers** -To explain where computers are used -To suggest what their job is -To understand that computers work together	**5. What happens when I post online? - To understand what happens to information posted online** -To explain what online information is -To know what is safe to share online -To know who to talk to if something is shared that makes me feel sad or worried

Computing Progression Document - Computing systems & Networks

KS2				
Year 3	**Year 3**	**Year 4**	**Year 5**	**Year 6**
Computing systems and networks Emailing - Microsoft Office 365	**Computing systems and network** Journey inside a computer	**Computing systems and networks** Collaborative Learning - Microsoft Office 365	**Computing systems and networks** Search Engines - Microsoft Office 365	**Computing systems and networks** Bletchley Park - Microsoft Office 365
1.Sending an email - To understand what email is used for and to send an email -To log in and log out of my email account -To write an email to my teacher -To understand that emails can be used to send information around the world	**1. Inputs and outputs - To recognise basic inputs and outputs** -To recognise some inputs and outputs -To understand that a computer follows instructions -To suggest what the computer is doing	**1. Teamwork - To understand that software can be used to work online collaboratively** -To understand that I can work with a partner without being in the same room -To contribute to teamwork sensibly and responsibly -To recognise what behaviour is appropriate when collaborating online	**1. Searching Basics - To understand what a search engine is and how to use it** -To explain what a search engine is -To use a search engine to navigate the web -To suggest keywords for searching	**1. Secret Codes - To understand that there are lots of different types of secret codes** -To understand why codes might be valuable -To identify some common secret codes -To decipher some secret codes -To write a message using a secret code
2.Adding Attachments - To edit email content and add an attachment -To log in to my email account -To send an email with an attachment -To reply to an existing email	**2. Building a paper laptop - To decompose a laptop** -To suggest a laptop's inputs and outputs -To recognise a laptop is made up of many parts -To use logic to explain the purpose of some parts	**2. Sharing a Document - To understand how to contribute to someone else's work effectively** -To share my work with other people and access documents shared with me -To understand that it is important to be positive and supportive of my classmates -To use collaborative word processing software to make suggestions or comments on someone else's work	**2. Inaccurate information - To be aware that not everything online is true** -To recognise that not everything online is true -To understand anyone can create a website -To suggest ways of checking the validity of a website	**2. Brute Force Hacking - To understand the importance of having a secure password** -To know what is meant by brute force hacking -To understand why it is important to have a secure password -To understand why a longer password is more secure than a short one

Computing Progression Document - Computing systems & Networks

3.Be kind online - To understand the importance of being kind online and what this looks like -To understand how to use positive language within an email -To recognise when digital behaviour is unkind -To know how to be a responsible digital citizen when I encounter others online	**3. Following instructions - To understand the purpose of computer parts** -To explain that a computer is made up of many parts -To suggest the purpose of each part -To follow an algorithm	**3. Microsoft Forms 1 - To understand how to create a digital survey** -To understand how to create a Microsoft Form -To understand why a survey might be useful -To plan my survey	**3. Web Quest - To search effectively** -To understand the importance of keywords -To use the acronym TASK -To use my search skills to answer focused questions	**3. Bletchley Park - To understand the importance of Bletchley Park to the World War II war effort** -To know that Bletchley Park was important during WWII -To know what the first computer was built for -To create an information poster about Bletchley Park
4.Cyberbullying - To understand that cyberbullying involves being unkind online -To recognise unkind behaviour and know how to report it -To be a responsible digital citizen -To offer advice to support other people who are victims of cyberbullying	**4. Computer memory - To understand the purpose of computer parts** -To explain that a computer is made up of many parts -To suggest the purpose of each part -To use a QR code	**4. Microsoft Forms 2 -** **To create and share a Microsoft Form** -To create a Microsoft Form -To share a form with my class	**4. Information Poster - To create an informative poster** -To have a clear poster title -To type at least five facts -To choose appropriate pictures, colours and designs -To consider fair use -To credit people for information, images and videos I use	**4. Computing Heroes - To understand about some of the historical figures that contributed to technological advances in computing** -To know some of the people who contributed to computing history -To identify what some historical achieved -To research one historical figure in detail
5.Fake Emails - To understand that not all emails are genuine -To recognise when an email might be fake -To understand that I shouldn't click on links in an email unless I know what it is -To know what to do if I suspect an email is fake	**5. Dismantling a tablet - To decompose a tablet computer** -To recognise a tablet is a computer -To compare similarities and differences across different types of computers -To use logic to suggest what's inside a computer	**5. Shared Spreadsheets -** **To analyse data** -To export data to a spreadsheet -To highlight data using conditional formatting -To use a spreadsheet to calculate averages and sums of numbers	**5. Web Crawlers - To understand how search engines work** -To understand the role of a web index -To explain what web crawlers are -To discuss page rank	**5. Computing Heroes part 2 - To research and present information about historical figures in computing** -To identify why historical figures were influential in creating modern computers -To present information using a presentation software -To explain why a historical figure is important