

Computing Progression of Knowledge and Skills

At Broadway Infant School we use South Gloucestershire's SOW to deliver our computing planning. This is used as a guide to ensure curriculum coverage and progression of skills and knowledge alongside this document. Teachers are also given the freedom to use their professional judgement when planning and teaching.

		Media - Word processing	
Year	NC Objectives/EYFS - ELG's	Skills/Knowledge	Apps and links
group			
EYFS	Use a range of small tools. (PD,	I can type letters with increasing confidence.	• Word
	Fine Motor Skills)	I can use a touch screen or computer and keyboard to play a game.	• 2Paint
			 Notebook IWB
1	use technology purposefully to	Know that typing is writing on a digital device.	• Word
	create, organise, store, manipulate	Know that you use a keyboard to type.	 Purple Mash
	and retrieve digital content	 Know the function of the space bar, return, delete, back space keys. 	 Pic Collage
		 I can confidently type words quickly and correctly on a digital device. 	• 2Create a story
		 I can use the space bar to make space and delete to delete letters/words. 	
		I can make a new line using enter/return.	
2		 Know the functions of the spacebar, return, delete, back space, caps lock and the 	• Word
		editing tools.	 Purple Mash
		I can use the spacebar correctly.	 Pages app
		I can copy and paste images and text.	
		I can use caps lock for capital letters.	
		 I can add images alongside text in a word processing document. 	
		 I can change the font style, size and colour. 	

		Media - Presentations, web design and eBook creation	
Year group	NC Objectives/EYFS- ELG'S	Skills/Knowledge	Apps and links
EYFS	Use a range of small tools. (PD, Fine Motor Skills) Is confident to try new activities and show independence, resilience and perseverance when facing a challenge. PSED, managing self.	 I can record my voice. I can move and resize images. 	 Talk tin Camera app Interactive whiteboard
2	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	 I can add labels to an image. I can order images to create a simple storyboard or storybook I can use pictures and text to explain my understanding of a topic. I can add speech bubbles to show what a character thinks. I can import images to a project from the web and camera roll. 	 Purple Mash 2Create a story Pic collage Pic collage Pages Purple Mash

		Media - Animation	
Year	NC Objectives/EYFS- ELG'S	Skills/Knowledge	Apps and links
group			
EYFS			
1	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	 Know that animations make it look like a picture is moving / talking. I can add filters and stickers to enhance an animation of a character. I can create an animation. 	ChatterPix Kids2Animate
2		 Know that animations make it look like a picture, model or object is moving / talking. I can create multiple animations of an image. I can explain how an animation works. I can experiment with simple animation. 	2Animate Imovie

		Media - Video creation	
Year group	NC Objectives/EYFS- ELG'S	Skills/Knowledge	Apps and links
EYFS	Use a range of small tools. (PD, Fine Motor Skills)	 I know the difference between a photo and video. I can record a short video and play it back. 	Camera app
1	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	 Know that a video / film is a recording of moving pictures. I can record a film using the camera app. I can select an image for the background of my recording. 	Doink greenscreen Camera app Shadow puppets edu
2		 Know that a video / film is a recording of moving pictures. Know that videos / film often use sound. I can record a video. I can use tools to add effects to a video. I can begin to use green screen techniques with support. 	Doink greenscreen Camera app iMovie Shadow puppets edu

		Media - Photography and digital Art	
Year group	NC Objectives/EYFS- ELG's	Skills/Knowledge	Apps and links
EYFS	Use a range of small tools. (PD, Fine Motor Skills) Safely uses and explores a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. (EAD, creating with materials)	 Know how to take a photograph I can take a photograph I can use a painting app and experiment with different paint and brush tools. 	 Camera app 2PaintaPicture using pattern 2Paint
1	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	 Know the difference between a photo and a picture. I can edit a photo with simple tools. I can use a paint/drawing app to create a digital image. 	CameraMark upKeynotePic Collage

up etc.) • Mai	rk up
mage/drawing. • Key	note
• Pic	collage
	image/drawing. • Key

		Media - Sound	
Year group	NC Objectives/EYFS- ELG's	Skills/Knowledge	Apps and links
EYFS	Performs songs, rhymes, poems, and stories with others and when appropriate tries to move in time with the music. (EAD, being imaginative and expressive)	 Know how to record sounds with different resources. I can record sounds with different resources. I can find ways to change my voice. I can record my voice. 	Camera appSOW2beat2explore
1	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	 I can explore short and long sounds I can record my voice. 	 Camera app Chatterpix 2sequence 2beat 2explore Garageband
2		 I can record my voice with some musical accompaniment. I can experiment with making music using software. 	 Camera app Chatterpix Purple Mash- Busy beats 2explore Garageband

		Data Handling	
Year	NC Objectives/EYFS- ELG'S	Skills/Knowledge	Apps and links
group EYFS	Can compare quantities up to 10 in different contexts, recognising when 1	 I can sort objects into groups and take a picture and discuss what I have done. I can present data digitally. 	 2Count Camera app
	quantity is greater than, less than or the same as the other. M, numerical patterns.		 Pictograms and tallying (not digitally)
1	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	 Know that data is information / facts. I can sort images or text into two or more categories on a digital device. I can collect data on a topic. I can create a tally chart and pictogram. I can record myself explaining what I have done and what it shows me. 	 2Count Word Camera app
2		 Know what different charts are called – Venn, Carroll, bar chart. Know what a branching database is. I can sort digital objects into a range of charts such as Venn diagrams, carroll diagrams and bar charts using different apps and software. I can orally record myself explaining what the data shows me. I can create a branching database using questions 	 2Count 2Connect 2Graph Camera app Word

		Computational Thinking	
Year group	NC Objectives/EYFS- ELG's	Skills/Knowledge	Apps and links
EYFS	Listens attentively and responds to what he/she hears with relevant actions CL, listening, attention and understanding. Shows an ability to follow instructions, involving several ideas or actions. PSED, self-regulation.	 I can follow simple oral algorithms I can identify simple patterns I can sequence simple familiar tasks and explain what will happen if they are in the wrong order. 	SOW Beehots BlueBots
1	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	 Know what an algorithm is. Know that the sequence of algorithms is important. Know that algorithms are implemented as programs on digital devices. Know that debug means fixing mistakes. I can plan, test and write a simple algorithm. I can debug a simple algorithm. I can create a simple program e.g. sequence of instructions for a Bee Bot. I can use sequence in programs I can locate and fix bugs in my program. 	2Go Purple Mash Bee Bots
2	Use logical reasoning to predict the behaviour of simple programs	 I can write algorithms for everyday tasks I can use logical reasoning to predict the outcome of algorithms I understand decomposition is breaking objects/processes down I can implement simple algorithms on digital devices (Bee Bots, Apps: Daisy the Dino) I can debug algorithms 	2Go 2Code Bluebots Code for life

		Coding and Programming	
Year	NC Objectives/EYFS- ELG's	Skills/Knowledge	Apps and links
group			
EYFS	Use a range of small tools. (PD, Fine Motor Skills)	 I can use a mouse or touch screen to make things happen on screen I can control a digital device with simple commands. 	Beebots

			Bluehots
1	understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by	 I can create a simple program e.g. sequence of instructions for a Bee Bot. I can use sequence in programs I can locate and fix bugs in my program. 	Beebots 2DI3D Purple Mash
2	following precise and unambiguous instructions create and debug simple programs use logical reasoning to predict the behaviour of simple programs	 I understand programs execute by following precise and unambiguous instructions. I can create programs on a variety of digital devices. I can debug programs of increasing complexity. I can use logical reasoning to predict the outcome of simple programs 	2Go 2Code Bluebots Code for life

		Esafety – Education For a Connected World	
Year group	NC Objectives/EYFS- ELG's	Self Image and Identity	Apps and links
EYFS	Shows an understanding of his/her own feelings and those of others, and is beginning to regulate his/her behaviour accordingly. PSED, self regulation.	 Know that I can say; no, stop, I'll tell, I'll ask - to somebody who asks me to do something that makes me feel sad, embarrassed or upset. Know that this could be either in real life or online. 	SOWPurple MashTwinklProject Evolve
1	recognise common uses of information technology beyond school use technology safely and	 Know that there may be people online who could make me feel sad, embarrassed or upset. Know who to speak to if I see content online that makes me feel sad, worried or frightened. If something happens that makes me feel sad, worried, uncomfortable or frightened I can give examples of when and how to speak to an adult I can trust. 	SOWPurple MashTwinklProject Evolve
2	respectfully, keeping personal information private; identify where to go for help and support when they have concerns about material on the internet or other online technologies	 Know that other people's identity online can be different to their identity in real life. Know ways in which people might make themselves look different online. I can give examples of issues online that might make me feel sad, worried, uncomfortable or frightened; I can give examples of how I might get help. 	 SOW Purple Mash Twinkl Project Evolve Childnet

		Esafety – Education For a Connected World	
Year group	NC Objectives/EYFS - ELG's	Online Relationships	Apps and links
EYFS		 Know some ways in which the internet can be used to communicate. I can give examples of how I (might) use technology to communicate with people I know. 	SOWPurple MashTwinklProject Evolve
1	recognise common uses of information technology beyond school	 Know why it is important to be considerate and kind to people online. Know how I might use technology to communicate with others I don't know well. I can use the internet with adult support to communicate with people I know. I can give examples of how I might use technology to communicate with others I don't know well. 	SOWPurple MashTwinklProject Evolve
2	use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about material on the internet or other online technologies	 Know ways in which the internet is used to communicate with people – email, social media, messenger, web pages. I can use the internet to communicate with people I don't know well (e.g. email a penpal in another school/ country). I can give examples of how I might use technology to communicate with others I don't know well. 	 SOW Purple Mash Twinkl Project Evolve 2mail 2blog

		Esafety – Education For a Connected World	
Year group	NC Objectives/EYFS - ELG's	Online Reputation	Apps and links
EYFS		Know ways that I can put information on the internet.	SOWPurple MashTwinkl
1	recognise common uses of information technology beyond school	 Know that information can stay online and could be copied. Know what information I should not put online without asking a trusted adult first. 	SOWPurple MashTwinkl

2	 Know that information put online can last for a long time. 	• SOW
use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about material on the internet or other online technologies	 Know who to talk to if I think someone has made a mistake about putting something online. Know that information can stay online and could be copied. 	Purple MashTwinklYou tube

		Esafety – Education For a Connected World	
Year group	NC Objectives/EYFS - ELG's	Online Bullying	Apps and links
EYFS	Can explain the reasons for rules, knows right from wrong and tries to behave accordingly. PSED, managing self. Shows an understanding of his/her own feelings and those of others, and is beginning to regulate his/her behaviour accordingly. PSED, self regulation.	 Know that bullying is when someone hurts another person more than once by using behaviour which is meant to scare, hurt or upset that person. I can describe ways that some people can be unkind online. I can offer examples of how this can make others feel. 	SOWPurple MashTwinkl
1	recognise common uses of information technology beyond school	 Know that bullying is someone hurts another person more than once by using behaviour which is meant to scare, hurt or upset that person. I can describe how to behave online in ways that do not upset others and can give examples. 	SOWPurple MashTwinkl

2		 Know that bullying is someone hurts another person more than once by using 	• SOW
	use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about material on the internet or other online technologies	 behaviour which is meant to scare, hurt or upset that person. Know / understand how bullying can make someone feel. I can give examples of bullying behaviour and how it could look online. I can talk about how someone can/would get help about being bullied online or offline. 	 Purple Mash Twinkl Internetmatters.org Azoomee.com

		Esafety – Education For a Connected World	
Year group	NC Objectives/EYFS - ELG's	Managing Online Information	Apps and links
EYFS		 Know devices I could use to access information on the internet. I can talk about how I can use the internet to find things out. I can give simple examples of how to find information (e.g. search engine, voice activated searching). 	SOWGooglePurple Mash
1	recognise common uses of information technology beyond school	 I can use the internet to find things out I can use simple keywords in search engines. I can describe and demonstrate how to get help from a trusted adult or helpline if I find content that makes me feel sad, uncomfortable worried or frightened. 	SOWGooglePurple Mash
2	use technology safely and respectfully, keeping personal information private; identify where to go for help and support	Know what voice activated searching is and how it might be used (e.g. Alexa,	• SOW
_	when they have concerns about material on the internet or other online technologies	 Google Now, Siri). Know and explain the difference between things that are imaginary, 'made up' or 'make believe' and things that are 'true' or 'real'. Know that some information I find online may not be true. I can use keywords in search engines. I can demonstrate how to navigate a simple webpage to get to information I need (e.g. home, forward, back buttons; links, tabs and sections). 	 Google Purple Mash Childnet.com Swiggle.org.uk Kiddle.co

	Esafety – Education For a Connected World			
Year group	NC Objectives/EYFS – ELG's	Health, Well Being and Lifestyle	Apps and links	
EYFS	Can explain the reasons for rules, knows right from wrong and tries to behave accordingly. PSED, managing self. Shows an understanding of his/her own feelings and those of others, and is beginning to regulate his/her behaviour accordingly. PSED, self regulation.	Know rules that help keep us safe and healthy in and beyond the home when using technology.	 SOW Purple Mash Twinkl Project Evolve 	
1	recognise common uses of information technology beyond school	 Know some rules to keep us safe when we are using technology both in and beyond the home. I can explain rules to keep us safe when we are using technology both in and beyond the home. 	SOWPurple MashTwinklProject Evolve	
2	use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about material on the internet or other online technologies	 Know and explain simple guidance for using technology in different environments and settings. Know how the rules/guides can help me. 	SOW Project Evolve	

		Esafety – Education For a Connected World		
Year group	NC Objectives/EYFS - ELG's	Privacy and Security	Apps and links	
EYFS	Forms positive attachment to adults. PSED, building relationships.	 Know some simple examples of my personal information (name, address, birthday, age, location). I can describe the people I can trust and can share this with; I can explain why I can trust them. 	SOWPurple MashTwinklProject Evolve	

1	recognise common uses of information technology beyond school use technology safely and respectfully, keeping personal information private; identify	 Know that personal information includes my name, my birthday, where I live, my family's names, where I go to school. Know that passwords can be used to protect your personal information and data. I can explain why I should always ask a trusted adult before I share any information about myself online. I can explain how passwords can be used to protect information and devices. 	 SOW Purple Mash Twinkl Project Evolve
2	where to go for help and support when they have concerns about material on the internet or other online technologies	 Know that online information about me could be seen by others. Know some rules for keeping my information private. Know what passwords are. Know which devices in my home could be connected to the internet. 	 SOW Purple Mash Twinkl Project Evolve Thinkuknow.co.uk

		Esafety – Education For a Connected World		
Year group	NC Objectives/EYFS - ELG's	Copyright and Ownership	Apps and links	
EYFS		 Know that work I create belongs to me. I can name my work so that others know it belongs to me. 	SOWPurple MashTwinkl	
1	recognise common uses of information technology beyond school use technology safely and	 Know that work I create using technology belongs to me. Know how to save work. I can say why work I create belongs to me. it belongs to me (e.g. 'it is my idea' or 'I designed it'). I can save my work so that others know it belongs to me (e.g. filename, name on content). 	SOWPurple MashTwinkl	
2	respectfully, keeping personal information private; identify where to go for help and support when they have concerns about material on the internet or other online technologies	 Know that other people's work belongs to them. Know that content on the internet may belong to other people. 	SOWPurple MashTwinkl	