



Overview of Computing Progression

	EYFS (introducing NC)			KS1			KS2			
	Area	F1	F2	Year 1	Year 2	Year 3	Year 4	Year 5 Year 6		
Online Safety	Online Reputation	Knowing my friends and family	Knowing I can share things online	 Everything online is permanent Information can be shared/copied 	 Posts about friends/family can be there permanently and may be viewed by strangers Asking permission before posting things online 	 Using search engines effectively Refining results Respecting others when posting their information 	 People using the internet to find information about me People altering information about me to make it untrue or inaccurate 	 Not all information about people is accurate Making judgements on information we find about people Judgements made by people when they search for us online Digital personality Protecting anonymity / reputation 		
	Copyright and Ownership	The things I make are mine	Putting name on things I have made	 The owner is the person who created it Putting your name on the work can copyright it 	 Content on the internet sometimes belongs to other people Learning that shared content does not necessarily mean the sharer is the owner 	 Rights over our own content Should not take credit for someone else's work Not everything online is available for us to use 	 Keeping the owner in mind when using their content Illegal online content – streaming services etc. 	 Assess and justify the appropriateness of using another person's work Copyrighted work Reusable content Referencing online sources 		
	Self-Image & Identity	What makes me unique?	Identifying likes and dislikes that make up my identity	 People may deliberately be unkind online Speaking to a trusted adult when they are upset 	 Children to learn how to make themselves look different online Children to learn why we make ourselves look different 	 Identity – how people represent themselves online Why might people have a different online identity to their real-life identity 	 Online identities –how people can make them effective Impersonation – impersonating someone online 	 Identity – way you speak/type etc. Positive and negative impact on others (catfishing) Multiple Online Identities Representations of others in the media Combatting negative stereotypes / representations 		
	Managing Online Information	Computers are used to help and entertain us	Uses of a computer	 Internet can be used to find things – harmful and upsetting at times Internet can be accessed by Google/Alexa 	 Navigating a website (back/tabs etc) Learning that not everything is true 	 Using keywords to find things faster Internet used to sell/buy Not all opinions are true 	 Making judgement about the accuracy of online content Fake news (and how it can affect people) 	 Validity and trustworthiness of websites and services Online stereotypes and hoaxes Influence, manipulation & persuasion Persuasive design Reporting inappropriate content 		
	Health, Wellbeing & Lifestyle	Doing things that make me happy	Unplugged – things I can do outside of technology	 Healthy Balance – unplugged SMART rules to keep healthy and happy 	 Children to learn about side effects of too much technology Technology rules differ depending on the environment 	 PEGI ratings Using the internet positively and safely so it does not cause us harm 	 Distraction can prevent a healthy lifestyle Using own judgement – is technology always the best solution? 	 Sleep Reducing the chances of technology ruining a healthy sleeping pattern Age restricted content Persuasive design to keep people interested 		
	Privacy & Security	Keeping my own information safe	Knowing what a password is	 What is the purpose of passwords? Keeping passwords safe 	 Learning about public sharing vs private sharing Password leaks Protecting information 	 Passwords – where to store, how to create, password rules etc. Sharing information with trusted people only 	 Internet is monitored for safety Age of consent 	 Apps read and share information App permissions allow developers to collect data Genuine and fake content Scamming Multiple ways to report/block 		

hey Mead imary School Online Bullying	People being unkind	Showing kindness to other people	 Bullying is several times on purpose People use the internet for different reasons – we should always be kind 	 Victim is not to blame (and it can make the victim very sad) Trusted adult when worried about something 	 Online behaviours can make people have different online experiences Forms of bullying (hurtful comments, exposing etc) 	 Inferring feelings from the way someone is acting Bullies making or using screenshots/videos etc Proofreading messages 	 Bullying vs playful joking Blocking abusive users 	 Collating evidence (screenshots) Everlasting impact Reporting content
Online Relationships	• Different types of friends (home/school)	Communicating with different people in different settings	 Internet can be used to communicate with family & friends (Facetime, Messenger) Online friends aren't always real friends 	 Strangers on the internet Consent (giving and respecting others) Dealing with when others try to pressure us 	 Finding friends with similar interests Online friend vs real friend Withdrawing consent 	 Platforms for different purposes Boundaries Respecting content as it means a lot to the sharer 	 Different forms of communication (Gifs/images) Online collaborations 	 Sharing embarrassing images of others Content shared privately can still be exposed
Word Processing	Introducing a keyboard and mouse	Logging in and accessing devices	 GOOGLE DOCUMENTS Google Classroom Saving documents Inputting data Keyboard Printing Templates 	 GOOGLE DOCUMENTS Copy & pasting Formatting text (font/colour/alignment Inserting images and shapes 	 GOOGLE DOCUMENTS Adjusting margins Inserting columns Inserting and formatting tables Inserting text boxes 	 GOOGLE SLIDES New slides Using premade designs Formatting background Insert text box/shape Inserting transitions 	 GOOGLE SLIDES Inserting animations Formatting pictures / shapes 	 GOOGLE SITES New page Inserting button Inserting text/media types
Photography & Video creation	• A camera takes pictures	Taking a photograph of something	 PHOTOGRAPHY Holding iPad Taking photographs Angles of photographs Creating picture collage 	 PHOTOGRAPHY Editing photographs Cropping pictures Adding text Adding effects 	 VIDEO Recording videos Using slo-mo Using pano Using time-lapse 	 VIDEO Assessing purpose of video Shot types Respectful videography 	 VIDEO Cropping videos Overlapping videos Combining videos together 	 VIDEO Adding images to videos Adding text Adding music/audio file Exporting video
Digital Art	Someone is creative and makes art	Creating a seasonal image on iPads	 DIGITAL ART Introducing pixels Changing pixel colours Using pixels to create something 	 DIGITAL ART Adding shapes Labelling shapes with text Altering pixels 	 DIGITAL ART Using shapes to fill Copy/paste Creating reflective symmetry 	• Creating layers • GIF creation	 GRAPHIC DESIGN Using Google Slides to create graphic design Using icons and shapes to overlap/bring to front etc. 	 GRAPHIC DESIGN Grouping and combining shapes/patterns Manipulating transparency/gradien t etc.
Uses of IT (including VR)	Computers and iPads help and entertain us	Identifying technology outside of the classroom	USES OF ITIT beyond schoolHelpful technology		VIRTUAL REALITY Adding, moving and resizing objects in a VR environment		VIRTUAL REALITY Using code blocks to create movement Creating multiple scenes	
Animation	Cartoons are a type of animation	Identifying and using comic strips	 COMIC CREATION Backgrounds (colour and picture) Adding characters/objects Adding speech bubbles for narrations Resizing and organising objects/backgrounds 		 ANIMATION Adding a background and objects to a frame Moving objects to create a moving animation (with objects moving simultaneously) 		 ANIMATION Creating stop-motion animation which includes backgrounds and shapes Using transitions and animations (such as morph) to create animation 	

	shey Mead imary School							Editing individual elements of an object	
	Music Creation (Sound)	 Music is made using instruments 	Using instruments to create music and rhythms		 MUSIC CREATION Using computers to create music Grouping sounds Adding rhythms 		 MUSIC CREATION Adding steady rhythms Building beats/effects Using sample sounds to create an effective music mix 		 MUSIC CREATION Layering tracks and sounds Editing tracks Adjusting volume Inserting effects
	Presentation and eBooks	Some books are on iPads or computers	Using technology to read books		 EBOOKS Adding and duplicate pages Inserting images/audio recordings Formatting page shape and background Inserting hyperlinks to aid navigation 		Creating a Sway (making horizontal/vertical) Inserting and formatting content / headers Adding groups to format images		 CANVA Finding templates and editing to suit own needs Adding content boxes Formatting images/objects/text Overlapping content Exporting document to save
puter Science	Computer Networks					 Understanding why computers are networked Understanding that computers are linked together Difference between the internet and WWW 	 Servers on the internet are located across the internet Emails sent across the internet Collaboration on the internet 	 Viewing webpages on the internet Uses search technologies effectively (including how pages are ranked in search engines) Web spiders index the web for search engines 	 Understanding main parts of a data packer Accessing shared files stored online Comparing collaboration on the internet Choosing suitable methods of communication to suit different needs
Compute	Coding		 Understanding instructions (algorithms) Using instructions in different settings Problem solving and correcting sets of instructions 	 Creating a simple algorithm Debugging simple algorithm Understanding sequence of an algorithm Predicting and stating an outcome of an algorithm 	 Write and tinker a piece of simple code Improve an algorithm by debugging Create code that includes movement and audio Use logic to predict outcome of an algorithm 	 Develop stronger understanding of algorithms Create own algorithms and identify own patterns Design and evaluate own programme 	• Correct errors in instructions, programmes or algorithms	 Decompose algorithms Use selection and variables in programmes Apply knowledge of decomposition and selection in different scenarios (part 1) 	 Understanding variables Creating code for different projects Apply knowledge of decomposition and selection in different scenarios (part 2)
Data	Data Handling			 Using tally charts and bar charts Representing data using a pictogram Sorting data and information into more than one category Analyse data and make comparisons 	 Collecting own data by using tally chart/bar chart Create a block chart Create and analyse a range of different charts and data 	 Analysing a branching database Creating a branching database 	 Collecting data using suitable method of representation Create and use bar chart for variety of purposes 	 Questionnaires and understanding how they are used to collect data Plan sets of questions that will generate in-depth results Creating questionnaires and analyse data collected 	 Purpose of spreadsheets Creating a formula and be able to use formulae in a range of subjects Create a spreadsheet that is used for a range of purposes

Individuals Individuals	Steve Jobs (Apple)	Ada Lovelace (Computer Programmer)	Bill Gates (Microsoft)	Mark Zuckerberg (Facebook)	Grace Hopper (Coding)	Alan Turing (Computer Scientist)
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