Online

Computing long-term plan

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Sunnyhurst Cycle A	**Graphics and sound Making Moving Images**		**Programming- including use in the home – including unplugged activities**		**Text and images- Spreadsheets**	
	• Create moving pictures with sound • Animated story books • Use apps to complete educational games.		• Use Beebot and understand how devices use specific instructions. • Make sets of simple instructions for others to follow. • Correct obvious errors (debug).- algorithms • Uses of programming in real life • How items in the home use programming e.g. microwave, alarm clock etc		• Understand and use technology as a presentation tool to support their work in a subject such as science. • Use digital images and text.	
Programme	2 create a story – Purple Mash 2 Animate – Purple Mash		Scratch Junior BBC Bitesize – Debugging Discovery Coding		2 Calculate- Purple Mash	
Online Safety Element	Self-Image and Identity (4-7)		Online Relationships and Reputation (4-7)		Managing Online Information (4-7)	
Sunnyhurst Cycle B	**Data Handling Grouping and Sorting**		**Digital research**		**Programming**	
Online Safety is taught each half term	• Collect data, favourite colour, fruit etc • Create pictograms and graphs to represent the data		• Gather information for a topic of work. • Use search engines to find information. • How to safely navigate the internet.		• Basic coding – what is coding and how do I do it?	
Programme	2 Count – Purple Mash 2 Graph – Purple Mash				2 Code – Purple Mash- Unit 1.7 / 2.1 Discovery Coding	
Online Safety Element	Health, Wellbeing and Lifestyle (4-7)		Privacy and Security (4-7)		Copyright and Ownership (4-7)	

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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Anglezarke Cycle A	**Programming Data handling**		**Text, images, video, and animation Graphics**		**Programming including Technology in the wider world**	
Online Safety is taught each half term	• Programmable toys Graphs and data bases • *Flowcharts, Timers, 'if' statements,*		• Presenting information for an audience • Creating art- select and combine images • Creating Folders – Saving Work		• Uses of programming in real life e.g. libraries, factories etc • Create and debug program • *Co-ordinates, Code, Testing and Debug and Design, Test and Debug*	
Programme	Scratch To Code Discovery Coding		2 Paint a Picture Various		2 Code Discovery Coding	
Online Safety Element	Self-Image and Identity (7-9)		Online Relationships and Reputation (7-9)		Online Bullying (7-9)	
Anglezarke Cycle B	**Text images and graphics – simulation and modelling**		**Sound Electronic communication**		**Digital research**	
Online Safety is taught each half term	• Combining graphics and text • Newspaper reports • Explore the effects of changing variables in models and simulations • Augmented reality		• Creating animation and sound • Reports via email or network- how to send an email		○ Database and internet searches ○ Validity of sources ○ Advanced Searches – images and text ○ Page ranking – Google	
Programme	Microsoft Word To Publish		2 animate		Project Evolve BBC Bitesize Google	
Online Safety Element	Managing Online Information (7-9)		Health, Wellbeing and Lifestyle (7-9)		Privacy and Security / Copyright and Ownership (7-9)	

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Computing long-term plan

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Roddlesworth **Cycle A**	**Creating media**		**Programming and Coding**		**Networking**	
Online Safety is taught each half term	▪ Web page creation • Collaboration – sharing work • Hyperlinks • Blogging		• Repeat Until and 'if/else' statements • Number Variables, Design and make an interactive scene • Make a playable game		• What is the internet? • Bias and point of view • Validity of sources and information	
Programme	School Website 2 Blog 2 Connect		Scratch Unplugged use of ICT To Code Y4,5,6 Discovery Coding/ Python		BBC Bitesize	
Online Safety Element	Self-Image and Identity (9-11)		Online Relationships (9-11)		Online Reputation (9-11)	
Roddlesworth **Cycle B**	**Data handling**		**Media- APPS**		**Input and Outputs**	
Online Safety is taught each half term	• Designing a spreadsheet for a specific purpose. Link to other topic area e.g. maths or science.		• Use and combine a variety of software and devices with increasing independence. • Creating an advert/ logo		• Understanding simple binary	
Programme	Excel Google Sheets 2 Calculate		MS Word Google Documents Discovery HTML		2 Code 2 Connect 2 Question (Binary Databases) BBC Bitesize PC Computer Discovery Coding/ Python	
Online Safety Element	Online Bullying (9-11)		Managing Online Information (9-11)		Health, Wellbeing and Lifestyle (9-11)	

Online

Computing long-term plan

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Roddlesworth **Cycle C**	**Programming- stop motion**		**Create a game- sound and image**		Data Handling	
Online Safety is taught each half term	• Use a variety of software, on a range of digital devices, to design and create content that accomplish given goals in the context of stop motion animation using a webcam or digital camera and associated software.		• Move and edit blocks as part of an algorithm • Program an algorithm as a sequence of game instructions with actions and consequences. • Add additional effects and features, such as sound or point scoring, to enhance the appeal of a game		• Graphing – using and creating data and formulae • Select and use the most appropriate method to organize, present, analyse and interpret data.	
Programme	Webcam Digital Camera I Movie		2 DIY 3D Discovery- Python/ HTML		Excel or Google Sheets	
Online Safety Element	Privacy and Security (9-11)		Copyright and Ownership (9-11)		Online Bullying (9-11)	

NB: We use the Education for a Connected World Framework for teaching online safety Education for a Connected World (publishing.service.gov.uk)
This is also taught through PSHE sessions, assemblies and themed weeks / days e.g. Safer Internet Day