Computing Subject Overview

		Project 1	Project 2	Project 3	Project 4	Project 5			
EYFS		Ongoing use of technology within the provision							
		Online Safety Self-image & Identity Online Relationships Managing information online Health Well-being & Lifestyle Privacy & Security Online bullying							
Yr	Cycle 1	Healthy Humans	Let's Celebrate	Wonderful Weather	Regal Royals	Beastly Bugs			
1/2		Computing systems and networks: Technology around us Recognising technology in school & using it responsibly. Creating media: Digital photography Capturing and changing digital photographs for different purposes. Online Safety Self-image & Identity Online Relationships	Programming: Moving a robot Writing short algorithms and programs for floor robots, and predicting program outcomes. Online Safety Online bullying	Data and information: Grouping data Exploring object labels, then using them to sort and group objects by properties. Online Safety Managing information online Privacy & Security	Creating media: Digital writing Using a computer to create and format text, before comparing to writing non-digitally. Online Safety Health Well-being & Lifestyle	Programming animations: Designing and programming the movement of a character on screen to tell stories. Online Safety Online reputation Copyright & Ownership			
	Cycle 2	All About Me	Fire! Fire!	How does your garden grow?	Roberttown Racers	Plastic Ocean			
		Computing systems and networks: Information technology around us Identifying IT and how its responsible use improves our world in school and beyond. Creating media:	Programming: Robot algorithms Creating and debugging programs, and using logical reasoning to make predictions. Online Safety Online bullying	Data and information: Pictograms Collecting data in tally charts and using attributes to organise and present data on a computer. Online Safety Managing information online Privacy & Security	Creating media: Making music Using a computer as a tool to explore rhythms and melodies, before creating a musical composition. Online Safety Health Well-being & Lifestyle	Programming quizzes: Designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz. Online Safety Online reputation Copyright & Ownership			

	Digital painting Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally. Online Safety Self-image & Identity Online Relationships					
Year 3	Computing systems and networks: Connecting computers Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks. Online Safety Self-image & Identity Online Relationships	Creating Media: Stop-frame animation Capturing and editing digital still images to produce a stop-frame animation that tells a story. Online Safety Online bullying	Programming: Sequencing sounds Creating sequences in a block-based programming language to make music. Online Safety Managing information online Privacy & Security	Data & Information: Branching databases Building and using branching databases to group objects using yes/no questions. Online Safety Health Well-being & Lifestyle	Creating Media: Desktop publishing Creating documents by modifying text, images, and page layouts for a specified purpose. Online Safety Online reputation	Programming: Events and actions in programs Writing algorithms and programs that use a range of events to trigger sequences of actions. Online Safety Copyright & Ownership
Year 4	Computing systems and networks: The internet Recognising the internet as a network of networks including the WWW, and why we should evaluate online content. Online Safety Self-image & Identity Online Relationships	Creating Media: Audio production Capturing and editing audio to produce a podcast, ensuring that copyright is considered. Online Safety Online bullying	Programming: Repetition in shapes Using a text-based programming language to explore count- controlled loops when drawing shapes. Online Safety Managing information online Privacy & Security	Data & Information: Data logging Recognising how and why data is collected over time, before using data loggers to carry out an investigation. Online Safety Health Well-being & Lifestyle	Creating Media: Photo editing Manipulating digital images, and reflecting on the impact of changes and whether the required purpose is fulfilled. Online Safety Online reputation	Programming: Repetition in games Using a block-based programming language to explore count-controlled and infinite loops when creating a game. Online Safety Copyright & Ownership
Year 5	Computing systems and networks: Systems and searching Recognising IT systems around us and how they allow us to search the internet.	Creating Media: Video production Planning, capturing, and editing video to produce a short film. Online Safety Online bullying	Programming: Selection in physical computing Exploring conditions and selection using a programmable microcontroller. Online Safety	Data & Information: Flat-file databases Using a database to order data and create charts to answer questions. Online Safety	Creating media: Vector drawing Creating images in a drawing program by using layers and groups of objects. Online Safety Online reputation	Programming: Selection in quizzes Exploring selection in programming to design and code an interactive quiz. Online Safety

	Online Safety Self-image & Identity Online Relationships		Managing information online Privacy & Security	Health Well-being & Lifestyle		Copyright & Ownership
Year 6	Computing systems & networks: Communication and collaboration Identifying and exploring how data is transferred and information is shared online. Online Safety Self-image & Identity Online Relationships	Creating Media: Webpage creation Designing and creating webpages, giving consideration to copyright, aesthetics, and navigation. Online Safety Online bullying	Programming: Variables in games Exploring variables when designing and coding a game. Online Safety Managing information online Privacy & Security	Data & Information: Introduction to spreadsheets Answering questions by using spreadsheets to organise and calculate data. Online Safety Health Well-being & Lifestyle	Creating Media: 3D modelling Planning, developing, and evaluating 3D computer models of physical objects. Online Safety Online reputation	Programming: Sensing Designing and coding a project that captures inputs from a physical device. Online Safety Copyright & Ownership