Computing Subject Overview 2024-2025

	Autumn1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS: How do the EYFS developmental strands link to the computing curriculum?	The statutory framework for EYFS (DfE, 2021) defines the characteristics of effective teaching and learning as: • playing and exploring – children investigate and experience things, and 'have a go' • active learning – children concentrate and keep on trying if they encounter difficulties, and enjoy achievements • creating and thinking critically – children have and develop their own ideas, make links between ideas, and develop strategies for doing things. The use of technology and computing related activities provides beneficial links to these characteristics, in addition to links which can be made across all prime and specific areas of learning. Such learning opportunities also promote children's curiosity and their '…understanding of our culturally, socially, technologically and ecologically diverse world' (Development Matters – DfE, 2021).					

Three and Four-Year-Olds	Personal, Social and Emotional Development	• Remember rules without needing an adult to remind them.
	Physical Development	• Match their developing physical skills to tasks and activities in the setting.
	Understanding the World	• Explore how things work.
Reception	Personal, Social and Emotional Development	• Show resilience and perseverance in the face of a challenge. • Know and talk about the different factors that support their overall health and wellbeing: - sensible amounts of 'screen time'.
	Physical Development	• Develop their small motor skills so that they can use a range of tools competently, safely and confidently.
	Expressive Arts and Design	• Explore, use and refine a variety of artistic effects to express their ideas and feelings.

	ELG	Personal, Social and Emotional Development	Managing Self	• Be confident to try new activities and show independence, resilience and perseverance in the face of challenge. Explain the reasons for rules, know right from wrong and try to behave accordingly.
		Expressive Arts and Design	Creating with Materials	Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.

EYFS Online Safety	**Discuss class rules for working online and on technology.** **Meet the Digital Citizens - Arms** **Finding Balance with Media and Tech Use at Home**	**Meet the Digital Citizens - Legs** **Digiduck's Big Decision** **Digi Duck Masks**	**Online Safety Day** **Meet the Digital Citizens - Heart** **How to Make Meaningful Family Connections Using Media + Tech** **Detective Digiduck**	**Meet the Digital Citizens - Head** **Barefoot Computing: Safety Snakes** **Choosing High-Quality Media for Your Kids**	**Meet the Digital Citizens - Guts** **How to use Media and Tech to Build Life Skills in Young Kids** **Smartie the Penguin for EYFS (Lesson Plan 2)**	**Meet the Digital Citizens - Feet** **Raising Healthy Kids in a Digital World** Digiduck and the Magic Castle
Year 1	**We are digital artists** (Transition) Developing our mouse skills. Logging on and off the computers. Using **2paint** to create pictures of our favourite toys.	**We are rhythmic** (IT Media) Creating sound patterns in **ScratchJr** and **GarageBand**	**We are digital artists** (IT Creativity) Using '**2Publish**' to create our own digital artwork inspired by famous artists.	**We are publishers** (DL &OS) Creating talking E-books based on well-known fairy tales	**We are TV chefs** (CS &CT) Creating our own cooking show using the iPads.	**We are treasure hunters.** (CS Coding) Programming and debugging Bee Bots.
Year 1 Online Safety	**Discuss class rules for working online and on technology.** **Pause for People Jessie & Friends: Episode 2 - Sharing Pictures**	**Media Balance Is Important** **Barefoot Computing: Safety Snakes**	**Online Safety Day** **Device Advice - Why We Pause for People** **Jessie & Friends: Episode 3**	**Media Balance Is Important - Quick Bite** **Smartie the Penguin (Lesson Plan for Year 1 Lesson A)**	**Safety in My Online Neighbourhood** **Smartie the Penguin (Lesson Plan for Year 1 Lesson B)**	**Device Advice - Caring for Our Devices** **Digiduck Saves the Day**

Year 2	We are astronauts (CS Coding) Using **ScratchJr** to program on screen work	We are game testers (CS &CT) Exploring how computer games work - **Scratch**	We are photographers (IT Media) Take and edit photographs	We are safe researchers (DL &OS) Research on safe sites; Create a PowerPoint.	We are animators (IT Media) plan, film and add audio to a short 'stop-motion' animation	We are zoologists (IT Data) Using 'Excel' to create a bar chart - data about bugs
Year 2 Online Safety	**Discuss class rules for working online and on technology.** **How Technology Makes You Feel** **Jessie & Friends: Episode 3 - Playing Games**	**Pause for people** **Smartie the Penguin (Lesson Plan, Year 2 Lesson A)**	**Online Safety Day** **Device Advice - Our Device Charter** **Barefoot - Who does this belong to?**	**Device Advice - Managing Device Distractions** **The Adventures of Smartie the Penguin (Year 2 Lesson B)**	**Internet Traffic Light** **Pantosaurus and His PANTS song**	**Pause for People - Quick Bite** **BBC Own It: Digital Footprint: What Is It and Why Should I Care?**
Year 3	We are programmers (CS Coding) Using **Scratch** to create animations	We are bug fixers (CS & CT) Using **Scratch** and unplugged activities to debug code	We are presenters (IT Media) Using iMovie to create a presentation. Source images online to illustrate presentation and film it against a green screen background.	We are who we are (DL & OS) Using PowerPoint to create a presentation.	We are co-authors (IT Media) Using Google docs to create a collaborative document.	We are opinion pollsters (IT Data) Using G-suite to create an online opinion poll, seek responses and then analyse the results.
Year 3 Online Safety	**Write class rules for working online and on technology.** **Device-Free Moments**	**Putting a STOP to Online Meanness** **Interland: Kind Kingdom**	**Online Safety Day** **Who Is in Your Online Community?** **Band Runner: Share**	**Our Digital Citizenship Pledge** **Band Runner: Chat**	**Keeping Games Fun and Friendly** **Adventures of Kara, Winston and the SMART Crew: Ch. 5**	**Digital Friendships** **Internet Matters - Online Relationships + Online Reputation** **Childnet: Trust Me**

	Lego Build & Talk: Screen Time Interland: Reality River				BBC Own It - Online Relationships + Online Reputation	Lessons
Year 4	**We are software developers** (CS Coding) Using **Scratch** to design a maths game	**We are meteorologists** (IT Data) Using a data package such as **Excel** to input data, create charts and analyse data. (Can use **Google Slides**.)	**We are makers** (CS Coding) Using Microbit Make Code, to program and to debug.	**We are bloggers** (DL & OS) Using Wordpress to create a sequence of blogs and to develop a critical view of media.	**We are musicians** (IT Media) Using Garage Band create repeating rhythms.	**We are artists** (CS, Coding & IT) Using Inkscape and Scratch to create pieces of tessellating art.
Year 4 Online Safety	**Write class rules for working online and on technology.** **Your Rings of Responsibility The Adventures of Kara, Winston and the SMART Crew: Chapter 1**	**The Power of Words Lego Build & Talk: Cyberbullying** **Band Runner: Like**	**Online Safety Day** **Our Digital Citizenship Pledge Band Runner: Chat**	**Is Seeing Believing? Interland: Mindful Mountain**	**Password Power-Up Lego Build & Talk: Online Security** **Barefoot - You're the Jury**	**This Is Me The Adventures of Kara, Winston and the SMART Crew: Chapter 4**
Year 5	**We are cryptographers** (CS &CT) Learning how to decipher codes and create strong passwords **Scratch**	**We are game developers** (CS Coding) Developing an interactive game using **Scratch**	**We are architects** (IT Media) Using 'Sketch Up' to extend drawing skills to create 3D models.	**We are adventure gamers** (IT Media) Making an interactive, non-linear, text-based adventure game	**We are web developers** (DL & OS) Working collaboratively to create a website on the solar system	**We are VR Designers** Experimenting with Virtual and Augmented Reality

Year 5 Online Safety	Write class rules for working online and on technology. **My Media Choices** **Social Media Test Drive** **Band Runner: Lock** **BBC Own It - Health, Wellbeing and Lifestyle**	**Be a Super Digital Citizen** **BBC Own It: Cyberbullying Quiz** **BBC Own It - Online Bullying**	**Keeping Games Fun and Friendly** **Adventures of Kara, Winston and the SMART Crew: Ch. 5** **BBC Own It - Online Relationships + Online Reputation**	**A Creator's Rights and Responsibilities** **Digital Matters - Introduction to Thinking Critically Online** **BBC Own It - Managing Online Information** **NCSC Cyber Sprinters**	**Private and Personal Information** **Barefoot - The Phisherman game** **BBC Own It - Privacy & Security**	**Our Online Tracks** **Search It Up: My Popstar Disaster** **BBC Own It - Self-Image & Identity**
Year 6	**We Are Toy Makers** Coding and physical computing **Micro:bits and MakeCode**	**We are publishers** (IT Media) Sourcing, writing, editing and combining images and text from a range of sources **Google Docs or Publisher**	**We are connected** (DL & OS) Using a blogging platform to explore issues related to social media.	**Computational Thinkers** (CS &CT) Developing an understanding of some important algorithms **Scratch & Google Maps**	**We are advertisers** (IT Media) Creating a short television advert	**We are AI developers** (CS Coding) Learning about different aspects of artificial intelligence including machine learning.
Year 6 Online Safety	Write class rules for working online and on technology. **Finding My Media Balance** **Social Media Test Drive** **Internet Matters - Health, Wellbeing and Lifestyle** **Children's Commissioner: Digital 5 a Day**	**Is It Cyberbullying?** **Internet Matters - Online Bullying** **Chicken-Shop Grooming (Childnet)**	**Online Safety Day** **Digital Friendships** **Internet Matters - Online Relationships + Online Reputation** **Childnet: Trust Me Lessons**	**Reading News Online** **Digital Matters - Once Upon Online** **Internet Matters - Managing Online Information + Copyright & Ownership** **BBC Young Reporter - Fake News**	**You Won't Believe This!** **NCSC Cyber Sprinters** **Internet Matters - Privacy & Security +** **Digital Matters** **Barefoot - You're the Cyber Security Expert**	**Beyond Gender Stereotypes** **Internet Matters - Self-Image & Identity** **Are You Living an Insta Lie? Social Media vs. Reality**