



Aintree Davenhill Primary School – Computing Termly Subject Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	R5 My Online Life (DL) UPDATED This activity takes place over the course of the term. It covers all the DFE statutory requirements for digital literacy and online safety.	R5 My Online Life (DL) continued UPDATED This activity takes place over the course of the term. It covers all the DFE statutory requirements for digital literacy and online safety. R9 Talking Technology (IT) UPDATED The children will learn how to take photos, record video and record audio. This is an important skill that will enable them to document their own learning and ideas. The children will create a Tech Museum as they get to explore and play with old technology.	R6 Nursery Rhyme Coding (CS) UPDATED Using the theme of traditional tales, this activity develops computational thinking such as sequencing and promotes core technology skills. R4 Shape Hunt (Byte Size & Fun) UPDATED The children will use cameras or iPads to photograph shapes and colours from about the school and outdoor area.	R1 Technology & Me (DL) UPDATED This unit helps children to make sense of and explore the technology around them. The children will get to experience a range of technology/ equipment, including digital cameras, iPads, video cameras, microscopes and sound recorders. R8 Beats & Rhythms (Byte Size & Fun) UPDATED The children will use simple sound recording apps and music creation apps to make their own musical loops. Bags of fun for little DJs.	R3 Animal Safari (IT) UPDATED This unit helps children use iPads independently to collect and record information. The children will learn about opening apps, scanning QR codes, taking photos and recording information in a tally chart. Includes a range of continuous provision activities. R7 Pretty Pictures (IT) UPDATED The children will learn how to take photos, record video and record audio. This is an important skill that will enable them to document their own learning and ideas. The children will create a Tech Museum as they get to explore and play with old technology.	R2 Robots (CS) UPDATED This unit gives children their first taste of computing (computational thinking and coding). The children will learn new skills and practice giving instructions to complete tasks. Includes a range of continuous provision activities.
Year 1	Y1.5 My Online Life (DL) UPDATED This activity takes place over the course of the term. It covers all the DFE statutory requirements for digital literacy and online safety.	Y1.1 Modern Tales (DL) UPDATED Using the vehicle of the children's stories, the children will learn to navigate the rules of online safety and communication. The children will make animations based on an online situation they may encounter.	Y1.7 News Presenter (IT) UPDATED In this activity children will become news reporters. They will be given a series of break news stories based on popular traditional tales. The children will film short clips using green screen before sharing/ saving their work.	Y1.2 What is a Computer? (CS) UPDATED In this unit children will learn about the different parts of a computer and iPad. They will learn new skills, tips and tricks. The children will be able to see the inner working of a computer and build their own. Includes a range of continuous provision activities.	Y1.3 MiniBeasts (IT) UPDATED Children will use technology to classify minibeasts. In this activity the children will learn about gathering and presenting information. They will then make their own David Attenborough style nature documentary.	Y1.6 My Friend the Robot (CS) UPDATED In this unit children will learn all about computational thinking and problem solving with a variety of unplugged activities and online coding games.
Year 2	Y2.6 Making Games (CS) UPDATED Using Scratch the children will create a hero versus villain game. They will create sprites and learn the basics of using Scratch coding.	Y2.7 Presentations & Typing (IT) UPDATED The children will learn to use presentation software and develop their keyboard skills.	Y2.2 Code a Story (CS) UPDATED The children will write a basic story with illustrations. They will then turn this into an animated story using visual coding. The activity will introduce new concepts such as conditional language, repeat loops and debugging.	Y2.5 My Online Life (DL) This activity takes place over the course of the term. It covers all the DFE statutory requirements for digital literacy and online safety.	Y2.3 Story Land (IT) UPDATED The children take the role of authors to write the sequel to popular children's stories. They then create illustrations for their story and record them self-reading it in order to create an audiobook to publish online.	Y2.1 Online Buddies (DL) UPDATED This activity will explore what friendship means online. The children will learn about the do's and don'ts of communicating over the internet.
Year 3	Y3.5 My Online Life(DL) This activity takes place over the course of the term. It covers all the DFE statutory requirements for digital literacy and online safety.	Y3.7 Be Digitally Awesome (IT) This unit is all about ensuring the children possess core skills with word processing, spreadsheet and presentation apps.	Y3.2 Dancing Robot (CS) UPDATED The children will be using some of Scratch Jr's more advanced coding blocks to create their own interactive dancing robot game. The children will learn the important skills of critical thinking, problem solving and debugging.	Y3.1 Online Detectives (DL) UPDATED This activity is designed to support children in mastering the art of advanced internet searching. They will learn new tricks to improve their searches while they try to solve puzzles and challenges.	Y3.3 Rainforests(IT) UPDATED The children will explore rainforests through new Virtual Reality (VR) apps. They will also use Augmented Reality (AR) to create their own learning games for younger children to play.	Y3.6 Programming with Robots (CS) UPDATED Robots can be found almost everywhere. In this unit the children explore the history of robots and then get to program a robot around a maze.
Year 4	Y4.5 My Online Life(DL) This activity takes place over the course of the term. It covers all the DFE statutory requirements for digital literacy and online safety.	Y4.7 Endangered Animals (IT) UPDATED The children will learn online research skills, create illustrations and posters to raise awareness of our planet's endangered animals. The children will also get involved with environmental campaigns. They will make a class film about how making small changes can help e.g. air pollution and turning off your engines.	Inventors & Designers (CS) NEW UNIT The children explore the realms of product design and invention using their creativity, computational thinking, and digital skills. Children will tackle creative challenges, from 3D modelling with TinkerCad to coding with Micro:bits, culminating in designing a digital name badge.	Y4.1 Fake or Real (DL) Fake news is a serious concern and in this activity children will learn how they can sort the truth from the lies. Making videos to show what they have found out.	Y4.3 Dinosaurs (IT) UPDATED In this activity the children will make their own summer blockbuster. They will learn all about filming techniques and storytelling	Y4.6 Games Designer (CS) UPDATED The children will learn all about the career of games designer. They will play games, write reviews and then design and prototype their own game. Finally they will pitch their game idea to the class.
Year 5	Y5.5 My Online Life (DL) This activity takes place over the course of the term. It covers all the DFE statutory requirements for digital literacy and online safety.	Y5.1 YouTuber (DL) UPDATED Every child wants to be a "YouTuber". In this activity children will learn about what that means, the positives and negatives, safety tips and they will create their own video blog (vlog).	Y5.7 Binary Messages (IT) UPDATED This activity introduces binary code. It explains what binary code is and how it is used. The children then challenge each other to solve word problems by using binary.	Lost in Space – NEW UNIT (CS) In this activity, the children will create a quiz program in Scratch. The children will learn about decomposition, algorithm flow charts, and creating programs with a variable. This activity has an optional extension; the children can explore Sphero programmable robots and play a fun space-themed game.	Y5.3 AR Games (IT) UPDATED In this activity the children will be introduced to the world of Augmented Reality (AR). They will then be set the task of designing and creating a game	Y5.14 Web Designer (CS) UPDATED In this activity the children will learn about the history of the web, basic HTML, how to create their own graphics and how to publish their own website.
Year 6	Y6. 2 Chicken Run - Crossover Roads (CS) UPDATED The children will create their own version of the popular app Crossover Roads using visual coding. They will learn about decomposition and how to evaluate games.	Y6.3 VR Worlds (IT) UPDATED The class will explore Virtual Reality (VR) and how it can be used in the classroom. The children will also build their own VR world.	Fun with Code and Electronics (CS) NEW UNIT In this unit, the children will explore the basics of electronics and coding using the BBC Micro:bit. The children will engage in hands-on activities to create and code physical games, combining creativity, design technology and programming skills.	Y6.5 My Online Life (DL) This activity takes place over the course of the term. It covers all the DFE statutory requirements for digital literacy and online safety.	Y6.7 Money: (IT) UPDATED The children will explore money, stocks and shares through a series of challenges and games. Creating a spreadsheet and digital book to explain the importance of understanding how money works.	Y6.1 Online Safety Dilemmas (DL) UPDATED In this activity the children will become online safety ambassadors. They will be given modern day dilemmas. Dilemmas that children face every day online and asked to produce a series of "what to do" videos to explain how to cope online.