Computing Spiral Curriculum

Purple

Year A

- **Autumn 1** – Cyber Bullying, what it means and how it occurs, the consequences for people involved in cyber bullying, what to do if they experience cyber bullying or know of cyber bullying happening, how to be a good digital citizen and how negative behaviour can affect their digital footprint.
- **Autumn 2**- Stop Frame animation, create a basic stop frame animation, make a simple sequence, create a storyboard and plan what is needed for their stop frame, create props for animation using suitable software and hardware.
- **Spring 1**- Typing speed and accuracy, using a range of different technology independently, make choices about when to use technology, which piece of technology to use, which software/tools they are going to use on the technology and be able to explain their choices to others.
- **Spring 2** – Programming- coding, design and write a program that accomplishes a specific goal, to design and write a program that simulates a physical system, use repetition commands and if statements, debugging, play and create simple games using simple programming icons.
- **Summer 1**- Programming, Scratch Junior, create content that accomplish given goals. Solve problems by decomposing them into smaller parts. Write and debug programs that accomplish specific goals. Design, write and debug programs that accomplish specific goals.
- **Summer 2** – Multimedia, Email, different methods of communication. To open and respond to emails. To write an email to someone using an address book. To learn how to use email safely. To add an attachment to an email.

Year B

- **Autumn 1** – **Social Media** Children to explore the dangers surrounding social media. Children to learn about the different social media platforms available – Facebook, Twitter, Youtube, Pinterest. Reporting concerns – Strategies to stay safe on social media.
- **Autumn 2**- Become familiar with a range of devices, for example tablets, desktop computers, laptops, microphones, cameras etc and increasingly develop their independence and confidence in using these devices. Learn the keys on the key board (Purple Mash) Understand how to type the title date and sentences. Editing - functions to correct work make text bigger smaller use colour Produce a piece of writing.
- **Spring 1**- **Coding 2CODE Purple Mash** To design and write a program that accomplishes a specific goal. To design and write a program that simulates a physical system. To use repetition commands. To introduce 'If' statements. Debugging. To introduce variables
- **Spring 2** – **Radicalization** To understand that people online may not be who they say they are. To understand the dangers of giving out personal information online. To understand the dangers of spending too much time online. Radicalization through the internet/ gaming – PREVENT.
- **Summer 1**- **Augmented** Reality To create a virtual presence using an APP. To import images from a shared area into an APP. To record my voice and move images on a IPad. To create a story board for a digital play. To make and produce a digital play using the IPad. To edit my saved files to make improvements**.**
- **Summer 2** – **Design website** Select, use and combine a variety of software (including Internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.

Green

Year A

- **Autumn 1**- Children to explore the acceptable use policy and learn about the monitoring systems used in school. Pupils explore reasons why people use passwords, learn the benefits of using passwords, and discover strategies for creating and keeping strong, secure passwords.
- **Autumn 2**- Typing speed and accuracy to enable independent and efficient access to a computer. Using a mouse, keyboard, launch application, saving files, printing documents and a photocopier.
- **Spring 1**- Programming, adding or editing characters and backgrounds
- **Spring 2**- Pupils explore what it means to be responsible for and respectful of their offline and online communities as a way to learn how to be good digital citizens.
- **Summer 1**- Making digital music, edit and combine sounds, upload a sound from a sound bank, create a tune
- **Summer 2** – changing the appearance of text, use photos, videos and sounds to create an atmosphere when presenting to different audiences. Create presentations using power point and iMovie

Year B

- **Autumn 1**-Programming, build one and two step instructions, introduction to coding, block coding, backgrounds and characters
- **Autumn 2**- Using technology safely, responsible and respectfully, recognise acceptable and unacceptable behaviour, identify ways to report concerns and inappropriate behaviour, using safe rules to create a poster/ PowerPoint
- **Spring 1**- Creating different effects with different technology tools , using a mixture of text, graphics and sound to share learning
- **Spring 2**- Using different tools to control technology, developing typing speed and accuracy
- **Summer 1**- My online community, exploring how people can connect with one another through the internet, exploring how the ability to communicate online can unite a community but also present danger
- **Summer 2** – Programming, Algorithms, creating a simple debug program, use logical reasoning to predict behaviour of simple programs

Year A

- **Autumn 1**-E-safety, Using technology safely and respectfully, keeping personal information private. Know where to go for help and support when they have concerns about content or contact on the internet or other online material
- **Autumn 2**- Multimedia, use technology purposefully to create, organise, store, manipulate and retrieve digital content. Use paint tools to create a picture, Adding text, Retrieving, editing and saving work. Using simple apps to create simple animations
- **Spring 1**- Programming and coding , controlling a device, creating instructions, recording instructions, predicting instructions needed to complete a task
- **Spring 2**- Technology in our live, Recognising different technology at home, at school and in the environment. Understanding the purpose of the internet and how it can be used
- **Summer 1**- Key Skills, logging on and off, typing skills. Mouse control, saving and printing work, use App to take pictures-Pirate app
- **Summer 2** – Data Handling, Take photographs, video and record sound to record learning experiences. Collect data generate graphs and charts to find answers

Year B

- **Autumn 1**- Key Skills, logging on and off, typing skills. Mouse control, saving and printing work, use App to take pictures-Pirate app
- **Autumn 2**- Multimedia, use technology purposefully to create digital content. Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Paint skills- Colour magic
- **Spring 1**- Programming controlling a device, creating instructions, recording instructions, predicting instructions needed to complete a task
- **Spring 2**- E-Safety Using technology safely and respectfully, keeping personal information private. Digi Duck- logging off and on linked to story.
- **Summer 1**- Technology in our lives, Multimedia, Word processing skills, Word and Clicker, Exploring Keyboards, Typing letters, typing name, typing a sentence, typing to find an image on the internet.
- **Summer 2** – Programming, Daisy Dino app/ Beebot app. Understand control devices follow instructions using a common language. Use logical reasoning to predict the behaviour of simple programs.