Computing

Topics and Skills

2022-2023

Nursery
1. **E-Safety**
2. **Exploring Technology**
3. **E-Safety Refresh**

Reception
1. **E-Safety**
2. **Exploring Technology**
3. **E-Safety Refresh**

Year 1

Topic 1- E-Safety Autumn 1 3 Weeks

Introduce and teach how to logon and use basic functions of Seesaw.

Skills to be covered:

Health, Well-being and Lifestyle
- I can explain rules to keep us safe when we are using technology both in and beyond the home.
- I can give examples of some of these rules. (School's E-Safe Motto)

Self-image and Identity
- If something happens that makes me feel sad, worried, uncomfortable or frightened I can give examples of when and how to speak to an adult I can trust.
- I can recognise that there may be people online who could make me feel sad, embarrassed or upset.

Privacy and Security
- I can recognise more detailed examples of information that is personal to me (e.g. where I live, my family's names, where I go to school).
- I can explain why I should always ask a trusted adult before I share any information about myself online.
- I can explain how passwords can be used to protect information and devices.

Topic 2 – Photography, Videography and Digital Art Autumn 1 4 Weeks	
Skills to be covered: • I can use a digital device to take a photo and I can edit a photo using simple tools and filters. • I can record a simple video with sound using a digital device. • I can use a paint or drawing app to create a digital image.	E-Safety Skills: **Copyright and Ownership** • I can explain why work I create using technology belongs to me. • I can say why it belongs to me (e.g. 'it is my idea' or 'I designed it') **Online Reputation** • I can recognise that information can stay online and could be copied.

Topic 3 - Word Processing and Typing Autumn 2 6 Weeks

Skills to be covered:
- I can type words and simple sentences using a keyboard or tablet.
- I can use the 'space bar' to create a space between words, the 'delete' key and the 'caps lock' key and know which keys to use for punctuation such as full stops.

Topic 4 – Data Retrieving and Organising/Communicating Spring 1 5 Weeks	
Skills to be covered: • I know how to access a webpage using a digital device.	E-Safety Skills: **Managing Online Information** • I can describe and demonstrate how to get help from a trusted adult or

• I can use a search engine and understand its use (websites, images, video) • I can name some ways to communicate using the internet (email, text messaging, video calling)	helpline if I find content that makes me feel sad, uncomfortable worried or frightened. **Online Relationships** • I can use the internet with adult support to communicate with people I know. • I can explain why it is important to be considerate and kind to people online.

Topic 5 – Algorithms and Programs Spring 2 6 Weeks

Skills to be covered:
- I can explain what an algorithm is and give examples.
- I can follow an algorithm to control a programmable toy.
- I can explain what 'debugging' means.
- I can find and fix 'bugs' in a program.

Topic 6 – Algorithms and Programs Summer 1 6 Weeks

Skills to be covered:
- I can write an algorithm to control a programmable toy.
- I understand what logical reasoning is.
- I can use logical reasoning to predict the outcome of a programmable toy.

Topic 7 – ******* Summer 2 5 Weeks

- Cross-curricular projects using year group skills taught.
- iMovie App

Topic 8 – E-Safety Refresh Summer 2 2 Weeks

Health, Well-being and Lifestyle
- I can explain rules to keep us safe when we are using technology both in and beyond the home.
- I can give examples of some of these rules.

Self-image and Identity
- If something happens that makes me feel sad, worried, uncomfortable or frightened I can give examples of when and how to speak to an adult I can trust.
- I can recognise that there may be people online who could make me feel sad, embarrassed or upset.

Privacy and Security
- I can recognise more detailed examples of information that is personal to me (e.g. where I live, my family's names, where I go to school).
- I can explain why I should always ask a trusted adult before I share any information about myself online.
- I can explain how passwords can be used to protect information and devices.

Year 2

Topic 1- E-Safety Autumn 1 3 Weeks

Skills to be covered:

Health, Well-being and Lifestyle
- I can explain simple guidance for using technology in different environments and settings.
- I can say how those rules/guides can help me.

Self-image and Identity
- I can give examples of issues online that might make me feel sad, worried, uncomfortable or frightened; I can give examples of how I might get help.
- I can explain how other people's identity online can be different to their identity in real life.
- I can describe ways in which people might make themselves look different online.

Privacy and Security
- I can describe how online information about me could be seen by others.
- I can describe and explain some rules for keeping my information private.
- I can explain how many devices in my home could be connected to the internet and can list some of those devices.

Topic 2 – Photography, Videography and Digital Art Autumn 1 4 Weeks

Skills to be covered:	E-Safety Skills:
- I can use photos in a simple slideshow. - I can record a series of clips and edit them using a video/movie app. - I can use the shape and fill tools to create a detailed digital image using a paint or drawing app.	**Online Reputation** - I can explain how information put online about me can last for a long time. - I know who to talk to if I think someone has made a mistake about putting something online.

Topic 3 – Word Processing and Typing Autumn 2 6 Weeks

Skills to be covered:
- I can type short passages of text using a keyboard or tablet.
- I can select or highlight text and use tools to change its format (B, U, *I*, colour)
- I can insert or 'copy and paste' an image. I can 'upload' an image.

Topic 4 – Data Retrieving and Organising/Communicating Spring 1 5 Weeks

Skills to be covered:	E-Safety Skills:
- I can 'copy and paste' text and 'save' images from a website. - I can send an email.	**Managing Online Information** - I can explain the difference between things that are imaginary, 'made up' or 'make believe' and things that are 'true' or 'real'. - I can explain why some information I find online may not be true. **Copyright and Ownership** - I can describe why other people's work belongs to them. - I can recognise that content on the internet may belong to other people. **Online Relationships**

	• I can use the internet to communicate with people I don't know well (e.g. email a penpal in another school/ country).

Topic 5 – Algorithms and Programs Scratch Jnr Cards Spring 2 6 Weeks

Skills to be covered:
- I can write a program on a digital device.
- I can 'debug' programs on a digital device.
- I can use logical reasoning to predict the outcome of a program.

Topic 6 – Algorithms and Programs Scratch Jnr Independent Summer 1 6 Weeks

Skills to be covered:
- I can write a program on a digital device.
- I can 'debug' programs on a digital device.
- I can use logical reasoning to predict the outcome of a program.

Topic 7 - ****** Summer 2 5 Weeks

- Cross-curricular projects using year group skills taught.
- iMovie App

Topic 8 – E-Safety Refresh Summer 2 2 Weeks

Skills to be covered:

Health, Well-being and Lifestyle
- I can explain simple guidance for using technology in different environments and settings.
- I can say how those rules/guides can help me.

Self-image and Identity
- I can give examples of issues online that might make me feel sad, worried, uncomfortable or frightened; I can give examples of how I might get help.
- I can explain how other people's identity online can be different to their identity in real life.
- I can describe ways in which people might make themselves look different online.

Privacy and Security
- I can describe how online information about me could be seen by others.
- I can describe and explain some rules for keeping my information private.
- I can explain how many devices in my home could be connected to the internet and can list some of those devices.