Computing Learning Sequence Document - Year 3/4 - 2023/2024

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	The Internet (4.1) Staying safe online	Branching databases (3.4)	Audio Production (4.2)	Data logging (4.4)	Photo Editing (4.5)	Desktop publishing (3.5)
Learning Outcomes	Recognising the internet as a network of networks including the WWW, and why we should evaluate online content.	Building and using branching databases to group objects using yes / no questions.	Capturing and editing audio to produce a podcast, ensuring that copyright is considered.	Recognising how and why data is collected over time, before using data loggers to carry out an investigation.	Manipulating digital images, and reflecting on the impact of changes and whether the required purpose is fulfilled.	Creating documents by modifying text, images, and page layouts for a specified purpose.
Computing NC Focus:	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. Use search technologies effectively, appreciating how the results are selected and ranked, and be discerning in evaluating digital content. 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 and content that accomplish given goals, including collecting, analysing, evaluating and presenting data.	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 and content that accomplish given goals, including collecting, analysing, evaluating and presenting data. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. Use search technologies effectively, appreciating how the results are selected and ranked, and be discerning in evaluating digital content. 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 and content that accomplish given goals, including collecting, analysing, evaluating and presenting data.	Use sequence, selection and repetition in programs; work with variables and various forms of input and output. 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 and content that accomplish given goals, including collecting, analysing, evaluating and presenting data.	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. Use search technologies effectively, appreciating how the results are selected and ranked, and be discerning in evaluating digital content. 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 and content that accomplish given goals, including collecting, analysing, evaluating and presenting data.	Use search technologies effectively, appreciating how the results are selected and ranked, and be discerning in evaluating digital content. 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 and content that accomplish given goals, including collecting, analysing, evaluating and presenting data.
Prior learning:	Technology around us (1.1) Information technology around us. (2.1) Staying safe online	Grouping data (1.4) Pictograms (2.4)	Sequencing sound (3.4)	Grouping data (1.4) Pictograms (2.4)	Digital photography (2.2)	Digital writing (1.5)
Sequence of learning:	To describe how networks physically connect to other networks	To create questions with yes/no answers	To identify that sound can be digitally recorded	To explain that data gathered over time can be used to answer questions	To explain that digital images can be changed	To recognise how text and images convey information
	To recognise how networked devices make up the internet	To identify the object attributes needed to collect relevant data	To use a digital device to record sound	To use a digital device to collect data automatically	To change the composition of an image	To recognise that text and layout can be edited
	To outline how websites can be shared via the World Wide Web (WWW)	To create a branching database	To explain that a digital recording is stored as a file	To explain that a data logger collects 'data points' from sensors over time	To describe how images can be changed for different uses	To choose appropriate page settings
	To describe how content can be added and accessed on the World Wide Web (WWW)	To explain why it is helpful for a database to be well structured	To explain that audio can be changed through editing	To use data collected over a long duration to find information	To make good choices when selecting different tools	To add content to a desktop publishing publication
	To recognise how the content of the WWW is created by people	To identify objects using a branching database	To show that different types of audio can be combined and played together	To identify the data needed to answer questions	To recognise that not all images are real	To consider how different layouts can suit different purposes
	To evaluate the consequences of unreliable content	To compare the information shown in a pictogram with a branching database	To evaluate editing choices made	To use collected data to answer questions	To evaluate how changes can improve an image	To consider the benefits of desktop publishing
End Point:	The children will understand how to stay safe online. The children will recognise how devices connect to the internet and how content for these devices can be provided.	The children will have created a database and will have an understanding of how databases work and the benefits of using them.	The children will understand how music can be created digitally. The children will learn about copyright.	The children will use a data logger to create a dataset that can be interrogated.	The children will have created a digital image for a specific purpose.	The children will create a report into their topic. This report will demonstrate their understanding of desktop publishing and will include digitally manipulated images.
Class Topic	**I am Warrior**	**I am Warrior**	**Blue Abyss**	**Blue Abyss**	**Traders and raiders**	**Traders and raiders**
Linking to class topic suggestion.		Create a database of Roman emperors	Look at how music can portray a water world.	Cooling time of water or rainfall data.	Combine a background with created model of a Viking ship to create a convincing digital image.	Write a report on the Vikings.