Coit Computing Subject Long-Term Plan 2025-2026

Coit makes use of the Sheffield Primary Computing Scheme and Teach Computing https://teachcomputing.org/

2025 - 2026	A1	A2	SP1	SP2	SU1	SU2
F2	Uses ICT hardware to interact with age-appropriate computer software - Explore technology. - Use different digital devices. - Recognise that you can access content on a digital device. - Use a mouse, touchscreen or appropriate access device to target and select options on screen.	A1 - What is a Computer? Develops digital literacy skills by being able to access, understand and interact with a range of technologies - Recognise a selection of digital devices. - Recognise the basic parts of a computer, e.g. mouse, screen, keyboard. - Select a digital device to fulfil a specific task, e.g. to take a photo	Completes a simple program on electronic devices Can use the internet with adult supervision to find and retrieve information of interest to them (link to esafety) - Explore technology. - Use different digital devices. - Repeat an action with technology to trigger a specific outcome.	A2 - We Control Technology Can create content such as a video recording, stories and/or draw a picture on screen - Recognise the success or failure of an action. - Follow simple instructions to control a digital device. - Recognise that we control computers	understand and interact w Completes a simple progra - Explore technology.	finology to trigger a specific failure of an action. I to control a digital device.

Throughout the year, we use the Foundation Stage Computing Toolkit from the Sheffield Primary Computing Scheme to incorporate technology into lessons and provide a solid foundation for Computing in Key Stage 1. This covers: Communication and Language; Personal, Social and Emotional Development; Physical Development; Literacy; Mathematics; Understanding the World; and Expressive Arts and Design. Strand 2 -Strand 4 -Strand 3 -Y1 Strand 0 -**Strand 1 – Communicating:** Strand 5 – computational Computer systems and **Communicating: Text and images Computational thinking: Understanding and** thinking: programming B networks Multimedia sharing data programming A **Digital writing (Teach Programming animations Digital Painting (Teach** 3.1 How do I present (Teach Computing unit) Computing unit) 4.1 Simple Bee-Bot Unit 0.1 Key Skills Computing unit) data using pictures? (or **Programs** teach computing unit -In this unit the children pictograms Y2) In this unit, children will In this unit, children will will develop understanding In this unit, children will develop their understanding In this unit, children will be introduced to onthat computer based develop their of the various aspects of recognise that a program screen programming devices need to be understanding of a range using a computer to create is a sequence of (Link to Online Safety) through ScratchJr. programmed with instructions that a of tools used for digital and manipulate text. They Learners will explore the instructions (commands). In this unit, children learn painting. They will then will become more familiar computer can follow. way a project looks by This process will help that data can be use these tools to create with using a keyboard and They will predict the investigating sprites and children to begin to write presented graphically. their own digital mouse to enter and remove outcome of simple backgrounds. They will and test simple sequences They will explore a paintings, while gaining text. Learners will also programs and start to use programming blocks of instructions. graphing package and inspiration from a range consider how to change the plan out simple programs to use, modify, and answer simple questions look of their text and will be log on and off of artists' work. Children to move a floor robot. create programs. on the information will also consider their Learners will also be able to justify their - open up word shown. They will enter preferences when reasoning in making these introduced to the early data and explain their changes. Finally, learners stages of program design painting with and - type on the keyboard to Algorithms own work. without the use of digital will consider the differences through the introduction input symbols on the **Programming** devices. between using a computer of algorithms. screen to create text and writing **Data & Information** text on paper. They will be

able to explain which

Creating Media

Effective use of tools

	Technology Around Us (Teach Computing unit) In this unit, children will develop their understanding of technology and how it can help them in their everyday lives. They will start to become familiar with the different components of a computer by developing their keyboard and mouse skills. The children will also	Design and Development Effective use of tools	method they prefer and explain their reasoning for choosing this. Creating Media Design and Development Effective use of tools		Algorithms Programming
	consider how to use technology responsibly. Computing systems Impact of technology		Strand 0 – What is a computer?		
			0.1 – Key skills: What is a computer?		
Y2	Strand 1 – Communicating: Text and images	Strand 3 – Understanding and sharing data	Strand 2 – Communicating: Multimedia 2.2 How do I create a multimedia story?	Strand 4 – Computational thinking: programming A	Strand 5 – Computational thinking: programming B
	1.2 How do I use a computer as a writer? In this unit children identify some different forms information can take (text, images) and	3.2 What is a branching database? (or teach computing unit – branching data bases Y3) In this unit children understand that data can	In this unit, children will plan out digital content and present ideas and information by combining media including images and sound. They will identify the common features of digital content, such as photostories, and evaluate their own digital content. The children will recognise that digital content belongs to the	4.2 Extending Bee-Bot programs In this unit, children explain that an algorithm is a sequence of instructions that a human or computer can follow	5.2 Simple drawing programs In this unit, children recognise that an algorithm is a sequence of precise instructions

	learn that information can be personal e.g. school, address. They should also learn about responsible use of technology and come up with their own guidelines for acceptable use in school. Children will explore how to create content using two forms of media (text and images) with increasing independence. They will edit, organise and store content for a given purpose, and learn to give and act on feedback. Computing systems Effective use of tools Networks Safety and security	exist in a variety of forms, including in databases. They will explore a branching database and answer simple questions. They will focus on sorting and grouping data using yes/no questions. Children will create a simple branching database, and test, review and debug content. They will continue to learn about personal data and keeping it safe. Data and information Design and development	person that created it and the information private. Creating Media Design and Development Impact of Technology	e need to keep personal	to complete a task. They will create and debug more complex programs for floor robots, planning out an algorithm first. Algorithms Programming	that a human or computer can follow to complete a task. They will create simple programs using online programming applications by planning out an algorithm first. They will debug and predict the outcome of programs in more than one application. Algorithms Programming
		1	Strand 0 – What i 0.2 – Key skills: Us	•		
Y3	Strand 0 – Computer systems and networks	Strand 1 – Communicating: Text and images	Strand 2 – Communicating: Multimedia Making Digital	Strand 4 – computational thinking: programming A	Strand 3 – Understanding and sharing data	Strand 5 – computational thinking: programming B

	Connecting Computers (Teach Computing unit) In this unit, children will develop their understanding of digital devices. They will be introduced to computer networks, including devices that make up a network's infrastructure, such as wireless access points and switches. The children will also discover the benefits of connecting devices in a network.	1.3 What makes a good poster? (or teach computing unit – desktop publishing Y3) In this unit children focus on combining information to improve communication. They will learn how to communicate by using a combination of graphics and text. Children will create, edit, organise and store content for a given purpose both as a led task and independently. Creating media Data and information	Music Y2 (Teach Computing unit) In this unit, children will be using a computer to create music. They will listen to a variety of pieces of music and consider how music can make them think and feel. The children will compare creating music digitally and non-digitally as well as looking at patterns and purposefully creating music. Creating media Design and development Effective use of tools Impact of technology	4.3 Sequence and events in programs In this unit, children will recognise that changing the sequence of code in a program affects the outcome. They will use a range of inputs in a program to make things happen and create an algorithm to plan out a program. Data and information Effective use of tools	Flat-file databases (Teach Computing unit) In this unit, children will look at how a flat-file database can be used to organise data in records. They will use tools within a database to order and answer questions about data. The children will create graphs and charts from their data to help solve problems. They will also use a real-life database to answer a question and present their work to others. Data and information Effective use of tools	5.3 Count-controlled loops in Scratch In this unit, children recognise that an algorithm is a sequence of instructions to fulfil a task and that when inputted on a computer, it is called a program. Children will use a range of events to start part of a program and use count-controlled loops to make things happen a certain number of times. Data and information Effective use of tools
	Data and information Impact of technology Networks	Effective use of tools Networks Safety and security			Effective use of tools	
			Strand 0 – What i	•		
			0.3 – Key skills: Using	a school computer		
Y4	Strand 1 – Communicating: Text and images	Strand 2 – Communicating: Multimedia	Strand 0 – Computer systems and networks	Strand 4 – Computational thinking: programming A	Strand 5 – Computational thinking: programming B	Strand 3 – Understanding and sharing data
	1.4 How do I use a computer as an artist?			4.4 Decomposition and infinite loops	5.4 Simple selection in Scratch	Sheffield Y4 unit - data logging with Microbit

In this unit children
learn how to create
digital artwork in a
paint package and by
editing their own and
other people's photos
(considering
copyright). Children
will explore how to
create, edit, organise
and store images for a
specific
purpose/audience,
and understand how
the size of an image
affects quality. This
unit presents an
opportunity to discuss
image manipulation
and body image.*

Use art and photo-editing apps to create artwork. Add photos to create a montage.

Creating media

Effective use of tools

Impact of technology

2.4 What makes an excellent multimedia story?

In this unit children will evaluate animations or photostories to consider what makes it good and collectively produce a quality checklist. They will discuss their ideas for stories with peers. Children will storyboard on a given theme, and create resources. They will review and discuss how they could improve their work by adding music, titles and effects, and according to checklist. Choose to do animation or photo story depending on resources. All films are rated according to the PEGI system – discuss appropriate content for their age.

Creating media

Teach computing unit the internet

Learners will apply their knowledge and understanding of networks, to appreciate the internet as a network of networks which need to be kept secure. They will learn that the World Wide Web is part of the internet, and will be given opportunities to explore the World Wide Web for themselves in order to learn about who owns content and what they can access, add, and create. Finally, they will evaluate online content to decide how honest, accurate, or reliable it is, and understand the consequences of false information. This unit requires devices with an internet connection. Chrome Music Lab is used in one lesson to demonstrate content which can be produced on the World Wide Web.

In this unit, children will recognise that we can decompose programs into smaller parts to make them easier to solve and debug. They will use infinite (forever) loops in programs to keep something happening.

Algorithms Design and development Effective use of tools Programming

In this unit, children will recognise that programs flow differently depending on whether events, loops and selection statements are used. They will use selection to change what happens in a program depending on if a condition is met.

Algorithms Programming

In this unit, children will learn about data logging and why we use computers to collect large amounts of data over time. They will use a Microbit to log data and analyse the results.

Data and information Effective use of tools Subject: **COMPUTING**

2025-2026

	Design and development	Safety and security					
	Effective use of tools	Effective use of tools					
	Impact of technology						
	Networks						
	Safety and security						
		Strand 0 - What	is a computer?				
	0.4 – Key skills: Using School Computers and Networks Effectively						
Y5	Strand 2 – Communicating: Multimedia	Strand 4 – Computational	Strand 3 –	Strand 1 –	Strand 5 –		
		thinking: programming A	Understanding and	Communicating: Text	Computational thinking:		
Discuss	2.5 How do I create a radio advert/podcast?		sharing data	and images	programming B		
with CE	In this unit children will evaluate a range of radio	4.5 Selection and variables	8 1 1	3			
	•	La Alaia conita alaitala an coill	3.5 How do I find data	Computing Systems and	5.5 Simulating physical		
	adverts or podcasts and identify their key features:	In this unit, children will	and share responsibly	Networks (Teach	systems (or Microbit		
	purpose, audience, sound effects, music choice, layers,	recognise that we use	and safely?	Computing unit)	unit)		
	entertainment factor, clear audio. Children should	selection to change what		In this unit, learners			
	apply these features to their own work. They will plan,	happens in a program,	In this unit children	will develop their	In this unit, children		
	rehearse and record their own script on a given theme.	depending on whether a	develop their	understanding of	will recognise		
	They will learn how to edit audio and add layers.	condition is met. They will	understanding of	computer systems and	examples of physical		
	Children will review and evaluate each other's work	design and create programs	internet search		systems controlled by		
	and suggest improvements.	using selection and infinite	technologies and the	how information is	computers. They will		
		loops. Children will also	World Wide Web.	transferred between	be able to name a		
		recognise and use simple	They explore the	systems and devices.	range of inputs and		
	Creating Media	variables to keep score.	functions that are	Learners will consider	outputs of physical		
	Design and development	·	available to improve	small-scale systems as	systems. They will also		
	Effective use of tools		how searches are	well as large-scale	use repetition,		
		Algorithms	completed. They will	systems. They will	selection and variables		
		Design and development	also consider validity	'	to build or simulate a		
		Programming	of information,	explain the input,			
			*	output, and process	physical system in a		
			copyright and	aspects of a variety of	suitable application.		
			responsible use. The	different real-world			
			children will learn	systems. Learners will	Algorithms		
			about how they share	also take part in a	Design and development		
			their data with online	collaborative online	Impact of technology		

			sites and games, and what this means. Data & Information Effective use of tools Impact of technology Networks Safety and security	project with other class members and develop their skills in working together online. Computing systems Impact of technology Networks	Networks Programming
			Strand 0 – What is a computer?		
			0.5 – Key skills: Becoming and efficient computer user		
Y6	3.6 Why do we use spreadsheets? In this unit children will learn to use a spreadsheet to develop and explore mathematical models. (A spreadsheet is a computer program which organises data into rows and columns which can be manipulated and used in calculations). Children will input data into a spreadsheet for a given purpose; make predictions	Strand 1 – Communicating: Text and images 1.6 How do I use a computer to present information effectively? In this unit children will combine media to create a multimedia presentation. They will plan out, considering audience and features of an effective presentation. Children will evaluate and refine the content according to feedback	Strand 4 – Computational thinking: programming A 4.6 Writing complex programs In this unit, children will recognise and use sequence, repetition, selection and variables to create complex programs. They will combine variables with operators to determine when a program changes. Algorithms Design & Development Effective use of tools Programming	Communicating: Multimedia 2.6 What makes an excellent film? Children will learn about the features of a good film. They will identify different camera angles used in filmmaking and discuss their effect. They will apply this knowledge in their own planning and filming. They will learn the basics of editing video clips and adding effects. Children will	Strand 5 – Computational thinking: programming B 5.6 Real world applications (or Microbit unit) In this unit, children will recognise examples of real-world applications controlled by computers. They will use sequence, repetition, selection and variables to design and create a real-world physical system or application.

changing the data. They will also explore how formulae are used. Algorithms Data and information	Creating Media Design and development Effective use of tools Impact of technology		film and edit their work to improve it. All films in the UK have a PEGI rating – discuss what kind of content affects the rating Creating Media Design and Development Effective use of tools Impact of technology	Algorithms Creating Media Effective use of tools Programming
		Strand 0 – What is a computer?		
		0.6 – Key skills: Understanding the computer		