

Computing LTP 2023-2025

Concepts	Computing Systems and n	etworks	Programmin	g	Data and information		Creating me	dia
	What is a computer, how of constituent parts function a whole. Understand how networks to retrieve and share inforcome with associated risks. Online safety	together as s can be used mation and	to solve prob comprehence evaluate algorithms involved in p	eware to allow computers olems. Being able to l, design, create and orithms. The activities olanning, creating and omputing artefacts.	How is data stored, organi used to represent real wor and scenarios.		including tex video. The a	reate a range of media of, images, sounds and ctivities involved in eating and evaluating ortefacts.
	AUT	UMN		SPR	RING		SUM	1MER
Year R	Barefoot Computing https	://www.barefo	ootcomputing.	org/earlyyears tie units of v	vork into your own medium	term plan 1u	nit per half ter	m minimum
Year 1 and Year 2 Cycle A 2023-2024	Technology Around Us Year 1 Identifying technology. Identifying a computer and its main parts. Creating rules for using technology responsibly	Digital Pains Describing with different free do. Making care when paintipicture. To compare picture on a and on paper	what eehand tools eful choices ng a digital painting a	Digital Photography Year 2 Knowing what devices can be used to take photographs. Describing what makes a good photograph.	Information Technology Around Us Year 2 Recognising the uses of Information Technology. Identifying IT in the home and beyond school. Understanding how IT helps us. Understanding how to use IT safely.	Moving a Re Understand given comm	ing what a	Robot Algorithms Year 2 Describing a series of instructions as a sequence. Understanding what happens when we change the order of instructions.

Year 1 and Year 2 Cycle B 2024 -2025	Grouping data Year 1 Labelling objects. Identifying that objects can be counted. Describing objects in different ways. Comparing groups of objects. Answering questions about groups.	Recognising that we can count and compare objects using tally charts. Recognising that objects can be represented as pictures. Recognising that people can be described by attributes.	Digital Writing Year 1 Understanding that the look of text can be changed. Understanding why certain tools have been used. Comparing writing on a computer with writing on paper.	Making Music Year 2 Saying how music can make us feel. Identifying that there are patterns in music. Describing how music can be used in different ways. Showing how music is made from a series of notes.	Programming animations Year 1 Choosing a command for a given purpose. Identifying the effect of changing a value. Understanding that each sprite has its own instructions.	Programming Quizzes Year 2 Understanding that a series of commands has a start and an outcome. Deciding how a project can be improved.
Year 3 and Year 4 Cycle A 2023 -2024	Connecting Computers Year 3 Understanding how digital devices function. Understanding how computer networks share information. Recognising the physical components of a network.	Stop-Frame Animation Year 3 Understanding that animation is a sequence of drawings or photographs.	The Internet Year 4 Understanding how networks connect to other networks. Recognising how networked devices make up the internet. Understanding how websites can be shared via the World Wide Web. Understanding how content can be added and accessed. Evaluating the consequences of unreliable content.	Audio Editing Year 4 Understanding that sound can be digitally recorded. Evaluating choices	Sequence in Music Year 3 Identifying that sprites are controlled by commands. Recognising that a sequence of commands can have an order.	Repetition in Shapes Year 4 Understanding what 'repeat' means.

Year 3 and Year 4 Cycle B 2024 -2025	Branching Databases Year 3 Identifying the object attributes needed to collect relevant data. Understanding why it is helpful for a database to be well structured. Comparing pictograms with branching databases.	Understanding that data can be used to answer questions. Understanding that data loggers collect 'data points' from sensors over time.	Recognising how text and images convey information. Recognising that text and layout can be edited. Considering how different layouts suit different purposes. Considering the benefits of desktop publishing.	Repetition in Shapes Year 4 Creating a program in text based language. Modifying a count-controlled loop. Decomposing a program into parts. Creating a program that uses count-controlled loops.	Events and Actions Year 3 Understanding how a sprite moves.	Using a digital device to collect data. Using data to find Information.
Year 5 and	Sharing Information Year	Video Editing Year 5	Internet	Web Page Creation Year	Selection in Physical	Variables in Games Year
Year 6	5	_	Communication Year 6	6	Computing Year 5	6
Cycle A 2023 - 2024	Understanding that computers connect together to form systems. Recognising the role of computer systems in our lives. Understanding how information is transferred over the internet.	Recognising video as moving pictures. Identifying digital devices that can record video.	Understanding how search engines select results. Understanding how search results are ranked. Evaluating different methods of online communication.	Reviewing an existing website. Considering the ownership and use of images. Understanding the implications of linking to content owned by other people.	Understanding that a loop can stop when a condition is met.	Defining 'variable' as something that is changeable. Evaluating a project

Year 5 and	Flat-File Databases Year	Spreadsheets Year 6	Vector Drawing year 5	3D Modelling Year 6	Selection in Quizzes	Sensing Year 6
Year 6	5	Identifying questions	Understanding that	Using a computer to	Year 5	
Cycle B	Comparing paper and	that can be answered	drawing tools can be	create and manipulate	Understanding how	
Cycle D	computer databases.	using data.	used for different	3D digital objects.	selection is used in	
2024-2025	Understanding how	Understanding that	outcomes.	Constructing a digital 3D	computer programs.	
	grouping and sorting data	formula can be used to	Understanding that	model of a physical	Understanding how	
	helps us answer	produce data.	vector drawings consist	object.	selection directs the	
	questions.		of layers.	Designing a digital	flow of a program.	
	Understanding that computer programs can be used to compare data		Evaluating vector drawings.	model by combining 3D objects.	Evaluating programs.	
	visually.			Developing and		
				improving a digital 3D		
				model.		