

## Prior's Mill – Computing Long Term Plan

Early Years		Year One	Year Two	Year Three	Year Four	Year Five	Year Six
Nursery Understanding the world - explore how things work. Household devices, Interactive whiteboard.	Autumn One Computing systems and networks	Technology around us Recognising technology in school and using it responsibly.	Information technology around us Identifying IT and how its responsible use improves our world in school and beyond.	Connecting computers Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks	The internet Recognising the internet as a network of networks including the WWW, and why we should evaluate online content.	Systems and searching Recognising IT systems in the world and how some can enable searching on the internet.	Communication and collaboration Exploring how data is transferred by working collaboratively online.
Reception Barefoot Computing – Awesome autumn, winter warmers and Springtime Create and interpret simple	Autumr Two <b>Creating Media</b>	Digital painting Choosing appropriate tools in a program to create art, and making comparisons with working non- digitally.	Digital photography Capturing and changing digital photographs for different purposes.	Stop-frame animation Capturing and editing digital still images to produce a stop-frame animation that tells a story.	Audia production Capturing and editing audio to produce a podcast, ensuring that copyright is considered.	Video production Planning, capturing, and editing video to produce a short film	Webpage creation Designing and creating webpages, giving consideration to copyright, aesthetics, and navigation.
maps PSED- Show resilience and perseverance in the face of a challenge. Know and talk about the	Spring One <b>Programming</b>	Moving a robot Writing short algorithms and programs for floor robots, and predicting	Robot algorithms Creating and debugging programs, and using logical reasoning to make predictions	Sequencing sounds Creating sequences in a block- based programming language to make music.	Repetition in shapes Using a text- based programming language to explore count- controlled loops when drawing shapes.	Selection in physical computing Exploring conditions and selection using a programmable microcontroller	Variables in games Exploring variables when designing and coding a game.

		program					
different factors		outcomes.					
that support							
their overall							
health and							
wellbeing							
sensible	-	Grouping	Pictograms	Branching	Data logging	Flat-file	Introduction to
amounts of	lior	data	Collecting	databases	Recognising	databases	<u>spreadsheets</u>
( <u>,</u> ,	and information	Exploring	data in	Building and	how and why	Using a	Answering
Use Line.		object	tally charts	using	data is	database to	questions by
		labels, then	and using	branching	collected over	order data	using
1 2	<sup>2</sup> <sup>2</sup>	using them	attributes to	databases to	time, before	and create	spreadsheets
- · ·	, ,	to sort and	organise and present	group objects	using data	charts to answer	to organise and calculate
when completing	Data	group objects by	data on a	using yes/no	loggers to carry out an	questions.	data.
any type of	a	properties.	computer.	questions.	investigation.	questions.	
pattern or		Diaital	Diaital	Desktop	Photo editing	Introduction	3D modelling
problem.		writing	music Using	publishing	Manipulating	to vector	Planning,
· · · · · · · · · · · · · · · · · · ·	а	Using a	a computer	Creating	digital	graphics	developing,
Early Learning	viba	computer to	as a tool to	documents	images, and	Creating	and
Goal 5	<	create and	explore	by	reflecting on	images in a	evaluating 3D
PSED- Be	54	format text,	rhythms and	modifying	the impact of	drawing	computer
	ati	before	melodies,	text, images,	changes and	program by	models of
<u>PSED-</u> Be ਾ ਹੋ	Cre	comparing	before	and page	whether the	using layers	physical
confident to try		to writing	creating a	layouts for a	required	and groups of	objects.
new activities		non- digitally.	musical composition.	specified	purpose is fulfilled.	objects.	
and show		Programming	Programming	purpose Events and	Repetition in	Selection in	Sensing
independence,		animations	quizzes	actions in	games	quizzes	movement
		Designing	Designing	programs	Using a	Exploring	Designing and
resilience and		and	algorithms	Writing	block-based	selection in	coding a
perseverance in		programming	and	algorithms	programming	programming	project that
the face of	ŝ ui	the	programs	and	language to	to design and	captures
	2	movement of	that use	programs	explore count-	code an	inputs from a
Explain the		a character	events to	that use a	controlled	interactive	physical
reasons for	Progr	on screen to	trigger	range of	and infinite	quiz	device.
rules, know right	מ	tell stories.	sequences of	events to	loops when		
			code to make	trigger	creating a		
from wrong and			an interactive	sequences of actions.	game.		
try to behave			quiz.	mannaus.			
accordingly.							

EAD- Safely use			
and explore a			
variety of			
materials, tools			
and techniques,			
experimenting			
with colour,			
design, texture,			
form and			
function.			
Key Vocabulary			
Computer, mouse,			
screen, keyboard,			
safe,			
instructions,			
debug, pattern,			
remote, phone,			
trusted adult,			