

We follow the National Computing Curriculum to teach Computing at Spreyton.

We balance computer science, information technology and digital literacy through four main strands: Programming, creating content, data and computer systems.

We have a unique challenge at Spreyton to provide our children in KS2 with a curriculum that lets them build on previous knowledge and develop their skills sequentially while being taught in a class with 4 year groups.

We have a hybrid approach to teaching computing which allows the more challenging programming element to be taught sequentially to either y3/4 or y5/6 within the same lesson, with these units repeated in alternate years on a 2 year rolling programme, and other elements to be taught sequentially across an academic year, allowing all students to build on skills progressively.

Programming progression follows:

Sequence repetition selection variables.

We teach programming separately to 3/4 and 5/6 concurrently and we teach 2 units across a whole term because some of the skills build on each other directly.

Creating media progression is supported by teaching 2 units across a term every year so that they build on each other, this means that a year 3 or 4 child will have learnt a unit from their age group that will help them access the unit in the following term that may be from year 5 or 6 e.g. Spring Year C they learn desktop publishing before going on to look at web page creation.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2

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PERSEVERANCE



Ks1 Year A (2024 – 25)	1. Computing systems and networks – Technology around us – From Year 1 - Lesson 1 Technology in our classroom - Lesson 2 Using technology - Lesson 3 Developing mouse skills - Lesson 4 Using a computer keyboard - Lesson 5 Developing keyboard skills - Lesson 6 Using a computer responsibly	1. Computing systems and networks – IT around us – from Year 2 - Lesson 1 What is IT? - Lesson 2 IT in school - Lesson 3 IT in the world - Lesson 4 The benefits of IT - Lesson 5 Using IT safely - Lesson 6 Using IT in different ways	2. Creating media – Digital painting – From year 1 - Lesson 1 How can we paint using computers? - Lesson 2 Using shapes and lines - Lesson 3 Making care- ful choices - Lesson 4 Why did I choose that? - Lesson 5 Painting all by myself - Lesson 6 Comparing computer art and paint- ing	2. Creating media – Digital photography – From Year 2 • Lesson 1 Taking Photographs • Lesson 2 Landscape or portrait? • Lesson 3 What makes a good photograph? • Lesson 4 Lighting • Lesson 5 Effects • Lesson 6 Is it real?	3. Programming A – Moving a robot – From Year 1 - Lesson 1 Buttons - Lesson 2 Directions - Lesson 3 Forwards and backwards - Lesson 4 Four directions - Lesson 5 Getting there - Lesson 6 Routes	3. Programming A – Robot algorithms – From Year 2 - Lesson 1 Giving instructions - Lesson 2 Same but different - Lesson 3 Making predictions - Lesson 4 Mats and routes - Lesson 5 Algorithm design - Lesson 6 Debugging
KS1 Year B (2025-26)	4. Data and information Grouping data – From Year 1 - Lesson 1 Label and match - Lesson 2 Group and count - Lesson 3 Describe an object - Lesson 4 Making different groups - Lesson 5 Comparing groups - Lesson 6 Answering questions	4. Data and information – Pictograms – From Year 2 - Lesson 1 Counting and comparing - Lesson 2 Enter the data - Lesson 3 Creating pic- tograms - Lesson 4 What is an attribute? - Lesson 5 Comparing people - Lesson 6 Presenting information	5. Creating media – Digital writing (from Year 1) - Lesson 1 Exploring the keyboard - Lesson 2 Adding and removing text - Lesson 3 Exploring the toolbar - Lesson 4 Making changes to text - Lesson 5 Explaining my choices • Lesson 6 Pencil or keyboard	5. Creating media - Digital music (from year 2) • Lesson 1 How music makes us feel • Lesson 2 Rhythms and patterns • Lesson 3 How music can be used • Lesson 4 Notes and tempo • Lesson 5 Creating digital music • Lesson 6 Reviewing and editing music	6. Programming B - Programming animations From Year 1 - Lesson 1 Comparing tools Lesson 2 Joining blocks Lesson 3 Make a change Lesson 4 Adding sprites Lesson 5 Project design Lesson 6 Following my design	6. Programming B - Programming quizzes From Year 2 - Lesson 1 ScratchJr recap - Lesson 2 Outcomes - Lesson 3 Using a design - Lesson 4 Changing a design - Lesson 5 Designing and creating a program - Lesson 6 Evaluating

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PRIDE

PERSEVERANCE



KS2 Year A	Sequencing sounds	Repetition in	Stop-frame anima-	Video production	Connecting com-
	(3.3)	shapes (4.3)	tion (3.2)	(5.2)	puters (3.1)*
	Lesson 1- Introduc-	Lesson 1 Program-	Lesson 1 Can a pic-	Lesson 1 What is vid-	Lesson 1 How does
	tion to Scratch	ming a screen tur-	ture move?	eo?	a digital device
	Lesson 2- Program-	tle	Lesson 2 Frame by	Lesson 2 Filming tech-	work?
	ming sprites	Lesson 2 Program-	frame	niques	Lesson 2 What parts
	Lesson 3-	ming letters	Lesson 3 What's the	Lesson 3 Using a sto-	make up a digital
	Sequences	Lesson 3 Patterns	story?	ryboard	device?
	Lesson 4- Ordering	and repeats	Lesson 4 Picture	Lesson 4 Planning a	Lesson 3 How do
	commands	Lesson 4 Using	perfect	video	digital devices help
	Lesson 5- Looking	loops to create	Lesson 5 Evaluate	Lesson 5 Importing	us?
	good	shapes	and make it great	and editing video	Lesson 4 How am I
	Lesson 6- Making an	Lesson 5 Breaking	Lesson 6 Lights,	Lesson 6 Video evalua-	connected?
	instrument	things down	camera, action!	tion	Lesson 5 How are
	Video production	Lesson 6 Creating a			computers connect-
	(5.2)	program			ed?
	Lesson 1 What is				Lesson 6 What does
	video?	Variables in games			our school network
	Lesson 2 Filming	(6.3)			look like?
	techniques	Lesson 1 Introduc-			
	Lesson 3 Using a	ing variables			
	storyboard	Lesson 2 Variables			
	Lesson 4 Planning a	in programming			
	video	Lesson 3 Improving			
	Lesson 5 Importing	a game			
	and editing video	Lesson 4 Designing			
	Lesson 6 Video	a game			
	evaluation	Lesson 5 Design to			
		code			
	Selection in physi-	Lesson 6 Improving			
	cal computing (5.3)	and sharing			
	Lesson 1 Connecting				

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PRIDE

PERSEVERANCE



	Crumbles Lesson 2 Combining output compo- nents Lesson 3 Controlling with conditions Lesson 4 Starting with selection Lesson 5 Drawing designs Lesson 6 Writing and testing algo- rithms					
Ks2 Year B	Events and actions in programs (3.6)	Repetition in shapes (4.3)	Introduction to vector graphics	3D modelling (6.5) Lesson 1 Introduction	Branching data- bases (3.4)	Flat-file databases (5.4)
	Lesson 1 Moving a	Lesson 1 Program-	(5.5)	to 3D modelling	Lesson 1 Yes or no	Lesson 1. Creating a
	sprite	ming a screen tur-	Lesson 1 The draw-	Lesson 2 Modifying	questions	paper-based data-
	Lesson 2 Maze	tle	ing tools	3D objects	Lesson 2 Making	base
	movement	Lesson 2 Program-	Lesson 2 Creating	Lesson 3 Make your	groups	Lesson 2. Computer
	Lesson 3 Drawing	ming letters	images	own name badge	Lesson 3 Creating a	databases
	lines	Lesson 3 Patterns	Lesson 3 Making	Lesson 4 Making a	branching data-	Lesson 3. Using a
	Lesson 4 Adding	and repeats	effective drawings	desk tidy	base	database
	features	Lesson 4 Using	Lesson 4 Layers and	Lesson 5 Planning a	Lesson 4 Structur-	Lesson 4. Using
	Lesson 5 Debugging	loops to create	objects	3D model	ing a branching da-	search tools
	movement	shapes	Lesson 5 Manipu-	Lesson 6 Make your	tabase	Lesson 5. Compar-
	Lesson 6 Making a	Lesson 5 Breaking	lating objects	own 3D model	Lesson 5 Using a	ing data visually
	project	things down	Lesson 6 Becoming		branching data-	Lesson 6. Databases
		Lesson 6 Creating a	a graphic designer		base	in real life
		program			Lesson 6 Two ways	
	Selection in quizzes				of presenting infor-	

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PERSEVERANCE



	(5.6) Lesson 1 Exploring conditions Lesson 2 Selecting outcomes Lesson 3 Asking questions Lesson 4 Planning a quiz Lesson 5 Testing a quiz Lesson 6 Evaluating a quiz	Variables in games (6.3) Lesson 1 Introducing variables Lesson 2 Variables in programming Lesson 3 Improving a game Lesson 4 Designing a game Lesson 5 Design to code Lesson 6 Improving and sharing			mation	
KS2 Year C	Sequencing sounds (3.3) Lesson 1- Introduc-	Repetition in shapes (4.3) Lesson 1 Program-	Desktop publishing (3.5) Lesson 1 Words	Web page creation (6.2) Lesson 1 What makes	The Internet (4.1) Lesson 1 Connecting networks	Publishing project Link to curriculum
	tion to Scratch	ming a screen tur-	and pictures	a good website?	Lesson 2 What is the	
	Lesson 2- Program-	tle	Lesson 2 Can you	Lesson 2 How would	internet made of?	
	ming sprites	Lesson 2 Program-	edit it?	you layout your web	Lesson 3 Sharing	
	Lesson 3-	ming letters	Lesson 3 Great	page?	information	
	Sequences	Lesson 3 Patterns	template!	Lesson 3 Copyright or	Lesson 4 What is a	
	Lesson 4- Ordering	and repeats	Lesson 4 Can you	CopyWRONG?	website?	
	commands	Lesson 4 Using	add content?	Lesson 4 How does it	Lesson 5 Who owns	
	Lesson 5- Looking	loops to create	Lesson 5 Lay it out	look?	the web?	
	good	shapes	Lesson 6 Why desk-	Lesson 5 Follow the	Lesson 6 Can I be-	
	Lesson 6- Making an	Lesson 5 Breaking	top publishing?	breadcrumbs	lieve what I read?	
	instrument	things down		Lesson 6 Think before	•	
	Solostion in thusi	Lesson 6 Creating a		you link!		
	Selection in physi-	program				

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PERSEVERANCE



	cal computing (5.3) Lesson 1 Connecting Crumbles Lesson 2 Combining output components Lesson 3 Controlling with conditions Lesson 4 Starting with selection Lesson 5 Drawing designs Lesson 6 Writing and testing algorithms	Variables in games (6.3) Lesson 1 Introducing variables Lesson 2 Variables in programming Lesson 3 Improving a game Lesson 4 Designing a game Lesson 5 Design to code Lesson 6 Improving and sharing				
KS2 Year D	Events and actions in programs (3.6) Lesson 1 Moving a sprite Lesson 2 Maze movement Lesson 3 Drawing lines Lesson 4 Adding features Lesson 5 Debugging movement Lesson 6 Making a project	Repetition in games (4.6) Lesson 1 Using loops to create shapes Lesson 2 Different loops Lesson 3 Animate your name Lesson 4 Modifying a game Lesson 5 Designing a game Lesson 6 Creating our games	Audio production (4.2) Lesson 1 Digital recording Lesson 2 Recording sounds Lesson 3 Creating a podcast Lesson 4 Editing digital recordings Lesson 5 Combining audio Lesson 6 Evaluating podcasts	Photo editing (4.5) Lesson 1 Changing digital images Lesson 2 Changing the composition of imag- es Lesson 3 Changing images for different uses Lesson 4 Retouching images Lesson 5 Fake images Lesson 6 Making and evaluating a publica- tion	Data logging (4.4) Lesson 1 Answering questions Lesson 2 Data col- lection Lesson 3 Logging Lesson 4 Analysing data Lesson 5 Data for answers Lesson 6 Answering my question	Introduction to Spreadsheets (6.4) Lesson 1 Collecting data Lesson 2 Format- ting a spreadsheet Lesson 3 What's the formula? Lesson 4 Calculate and duplicate Lesson 5 Event planning Lesson 6 Presenting data

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