

Termly progression

Reception			
	Term 1/2	Term 3/4	Term 5/6
Knowledge	 To know a range of technology used at home and within school. To know the effect of pressing a button/interacting with technology. To know how to ask for help when I need it. To know what is and isn't technology. 	To know who to talk to if something worries me. To know what is meant by a 'sensible amount of screen time.' To know how to follow simple instructions independently or supported by an adult when using a computer/ iPad.	To know how to use technology to take a picture. To know how to programme a simple 1 step instruction. To know what it means to problem solve (debug).
Skills	To be able to explore digital technology within the classroom.	To be able to use an ipad to interact with a simple app. To be able to interact with a simple programme on a desktop computer using a mouse.	To be able to input a simple 1 step instruction into a floor roamer. To be able to use a digital device to take a photo.
Key	What does it mean to be safe? Who can I tell if something worries me? What is technology? What is problem solving? What happens when I		
Questions	touch the IWB? How much time should I spend in front of a screen? What is a mouse and keyboard?		
Key Vocabulary	Communication technology - Equipment used to communicate with, such as a mobile phone or table Interactive white-board — A large touch screen connected to a computer. Parts of a computer — screen, mouse, keyboard Internet - A network of computers linked all over the world. Input - Information that goes into the computer.		
Implementation	Interactive white board Hardware – interactive white board Software – phonics play, top marks maths, notebook files, drawing app Evidence of assessment for learning –	iPad /Desktop computers Hardware – iPad and desktop computers Software – Simple city, phonics play, teach monster, numberblocks app Evidence of assessment for learning – Teacher	Floor Roamers Hardware – Floor roamers Support for planning - Generation robots Evidence of assessment for learning –
	Teacher judgement, tapestry	judgement, tapestry	Teacher judgement, tapestry

Year 1

	Term 1	Term 3	Term 5
	Digital Literacy	Computer Science	Information Technology
Knowledge	To know how to use technology safely. To know how to keep personal information private. To know how to safely use a website. To know how technology is used safely in school and outside of school.	To know how to create an algorithm. To know how what is to debug a programme.	To know how to create digital content. To know how to store digital content. To know how to retrieve digital content.
Skills	To be able to a record video on a digital device. To be able to play back video recorded on a digital device.	To be able to plan a journey for a programmable toy. To be able to debug a simple programme.	To be able to create, store and retrieve digital content on a digital device.
Key Questions	 How can we keep safe online? What is personal information? Who are strangers? Who do we ask for help? What is the internet? What is a website? How is technology used at home and in school? What can we use to record a video? 	 What is a Bee-Bot? What is a programme? What is an algorithm? What does it mean to debug? 	 What is digital content? How do you save digital content? What does it mean to save and then retrieve digital content? How can you create art on a laptop? How do you combine text and pictures to create digital content?
Key Vocabulary	Internet - A network of computers linked all over the world. Network - Computers linked within a building or area.	Algorithm - A set of instructions given to be completed in order to achieve a task. Coding - Putting information and commands into a program, making it possible for to create software, apps and websites. Debug - fixing a sequence in a computer programme. (problem solving) Bee-Bot	Data - Information. Hardware - The physical part of a computer, which uses electrical signals to complete the calculations needed to make software run.

Implementation	Internet safety & Code it lessons	Bee Bots	<u>Laptops</u>
	Hardware – Interactive white board	<u>Hardware</u> – Bee Bots	<u>Hardware</u> – Laptops
	Support for planning - Smartie the	Support for planning – planning on shared drive.	Support for planning – Teach computing
	penguin	Code it http://code-it.co.uk/beebot	Evidence of learning – 1 page of floor book for
	Code it – <u>supermarket</u> , <u>library</u> , <u>bank</u>	Evidence of learning for assessment – 1 page of floor	each lesson including pupil voice. Saved digital
	Evidence of learning for assessment – 1	book for each lesson including pupil voice/videos of	content created by pupils on shared drive.
	page of floor book for each lesson	practical tasks including pupil voice.	
	including photos, posters and pupil voice.		

Year 2

	Term 1	Term 3	Term 5
	Digital Literacy	Computer Science	Information Technology
Knowledge	To know how to use technology respectfully. I know where to go for help if I am concerned. To know how to keep personal information private. To know that the internet can be used to complete simple searches.	To know to program a range of instructions. To know how to debug and amend a set of instructions. To understand that programs require precise instructions. To predict what the outcome of a simple program will be. (logical reasoning) To know that algorithms are used on digital devices.	To know how to organise digital content. To know how to retrieve and manipulate digital content. To know to create digital content. To know how to store and share digital content.
Skills	To be able to navigate the internet to complete simple searches and review results.	To be able to find, debug and fix simple errors in a programme. To be able to write a simple program.	To be able to organise, retrieve, create and store digital content.
Key Questions	 How can we keep safe online? Who should I talk to if I am concerned/worried about something online? How do I keep my information private online? How to I search for something online? How do I find answers to my questions online? 	 How do I load an application on a digital device? How do I make simple changes on an application? What is an algorithm? How do I debug a program? How can I predict what will happen on a program? How do I know if my program is successful? 	 How do we record data in a tally chart? How do we enter data on a digital device? What does sharing content mean? What is a pictogram? What is an attribute? What can a pictogram tell us?
Key Vocabulary	Data - Information. App (application) - refers to any application software that can be used by a computer, mobile device, or tablet to perform useful/specific tasks. Search Engine	Decomposition - is the process by which a large, difficult problem can be broken down into a series of smaller, simpler problems, thus making the overall problem easier to solve. Coding - Putting information and commands into a program, making it possible for to create software, apps and websites.	Digital devices - are any types of computers that you use, including laptops, tablets and smart phones. This also includes hardware which may connect to a computer.

		Algorithm - a precise set of instructions or rules to achieve an outcome or solve a problem. Bug - Errors in programs, or anything that stops them from working properly, are known as bugs Debug - fixing a sequence in a computer programming. To debug means to fix or get rid of the bugs and solve problems within a program in order to make it work how it is intended. Digital devices - are any types of computers that you use, including laptops, tablets and smart phones. This also includes hardware which may connect to a computer. Logical Reasoning	
Implementation	Internet safety	Scratch Jr	Data creation, manipulation, storage and retrieval.
	Hardware – Interactive white board	Hardware – iPads	Hardware – Laptops/iPads with Keyboards
	Support for planning - Safe internet	Software – Scratch Jr App	Software -https://www.j2e.com/jit5#pictogram
	search engine	Support for planning – Planning on the shared drive.	(create an account and login to save data/print)
	https://www.kidzsearch.com/	- https://www.scratchjr.org/teach/activities	Support for planning – Teach computing KS1 – Year 2
	Evidence of learning for assessment	Evidence of learning for assessment – 1 page of the	– pictograms
	- 1 page of the floor book for each	floor book for each taught lesson, with pupil voice.	Evidence of learning for assessment – 1 page of the
	taught lesson, with pupil voice.	Final project either saved onto share point or a video	floor books with pupil voice for each taught lesson.
<u>.</u>	8 11 111 1	taken and uploaded to share point.	Final pictograms printed for display.
Aims	Pupils will know how to use	Pupil will know how to write a simple algorithm, using	Pupils will know how to create a unique pictogram by
	technology respectfully performing	logical thinking to debug any issues.	retrieving and manipulating data. They will know how
	simple internet searches. They will		to save and a load data.
	know how to keep personal		
	information private and who to talk		
	to when they are concerned.		

^{*}Highlighted parts of the document indicate where internet safety is taught.