ICT Long term plan - Year A

In KS2 (annually):

- One 'Presentation' lessons in a 3-week plan needs to be word processed.
- One Science investigation needs to have data presented using a spreadsheet & graph
- One topic session needs to involve creating a PowerPoint of their knowledge.

		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
UKS2		Ancient Greeks	Circuit Builders	Raging Rivers and Monstrous Mountains		How do we see?	Ancient Egypt
	Unit	Mars Rover- 1	Mars Rover- 2	Introduction to Python	Big Data 2	Search Engines	Programming- Music
	Curriculum links						Plan a soundtrack for a book linked to topic or literacy
	Key Area	Data Handling	Skills Showcase	Programming	Data Handling	Computing systems and networks	Programming
	Hardware	Laptops and iPads	Laptops and iPads	Laptops and iPads	Laptops and iPads	Laptops and iPads	Laptops
	Software		Google sheets or Excel Tinkercad website or App for iPads	Turtle academy website MSW logo downloaded on laptops Trinket website	Micropolis and MakeCode websites	Canva for Education and Sketchpad websites Socrative App	SonicPi downloaded on laptops

				Powerpoint or Google slides			
	E-Safety	Smart Rules	Life Online	Sharing Online	Creating a Positive Online Reputation	Capturing Evidence	Password Protection	Think before you click
LKS2	Topic	Stone Age to Celts	Our Brilliant Bodies	The Rotten Romans	Lights, Camera, Action!	The British Empire		The Rainforest
	Unit	Comparison Cards	Collaborative Learning	HTML	Website Design	Computational Thinking		Emailing
	Curriculum links		Literacy- Composition and peer assessment Writing or presentations linked to topic	Create their own newspaper report linked to topic	Creating a website linked to a book or film.			Could send an email in support of an ethical company or to complain.
	Key Area	Data Handling	Computing systems and networks	Skills Showcase	Creating Media	Programming		Computing systems and networks
	Hardware	Laptops	Laptops and iPads	Laptops and iPads	Laptops and iPads	Laptops and iPads		Laptops
	Software	Spreadsheet software such as Google Sheets or Microsoft	G Suite (Gmail, Google Docs Google Slides, Google Sheets, Google Forms)	Glitch and Creative Commons websites	Google Sites	Scratch		Online email provider such as Gmail (Google) or Kidsemail which has a free 1 month trial.

		Excel Online email provider such as Gmail (Google) or Kidsemail which has a free 1 month trial.	can be accessed either via an internet browser or by installing the app.				Google Forms accessed with a Google account or Microsoft Forms accessed through a Microsoft account.
	E-Safety	Smart Rules	What happens when I search online?	How do companies encourage us to buy online?	Fact, opinion or belief?	What is a bot?	What is my #TechTimetable like?
KS1		Childhood Then and Now	Fire	Circle of Life		What makes this place special?	
	Unit	Improving Mouse Skills	Algorithms Unplugged	Word Processing	What is a computer?	Algorithms and Debugging	Rocket to the Moon
	Curriculum links	Links to literacy- Drawing scenes from a story. Art- Self Portraits		Literacy- Writing, presenting a piece of work			
	Key Area	Computing systems and	Programming	Computing systems and	Computing systems and	Programming	Skills Showcase

			networks		networks	networks		
	Hardware	Laptops or iPads		Laptops	Laptops and iPads	Laptops	Laptops
	Software	Sketchpad website		Word Typing Club website	Sketchpad website	Scratch Lighbot App Google Earth App or website	Word Sketchpad website Spreadsheet software such as Google Sheets or Microsoft Excel.
	E-Safety	Smart Rules	What happens when I post online?	How do I keep my things safe online?	Who should I ask?	It's my choice	Is it true?
EYFS Reception		What do I celebrate?		How can we help Cinderella have a ball?	Twinkle, twinkle little star, how I wonder what you are?	Was it once a mixed-up time?	How do we make sense of the world?
		Links to computing – iPads to take photographs, voice recorders Pictures of Play Picture Walk Class Photo Album		Links to computing – Using CD players, recording music composition, Spheros	Links to computing – Using google Earth on the computer	Links to computing – Story creating apps	Links to computing – Sound buttons/recorders, camera, visual and audio equipment linked to senses
		Main topic focus – Understanding the world/physical development		Main topic focus – Personal, social and emotional	Main topic focus - Understanding the world	Main topic focus - Literacy	Main topic focus - Understanding the world

		development			

	ICT taught through continuous provision – use of talking books, sound buttons, interactive whiteboard, bee bots, class computer, electric toys (e.g cars).
	E safety – Understand what to do if they see something they don't like online.

EYFS Nursery & Pre School		How do I get about?	What do I celebrate?	What makes a sound?	Who are the famous animals in my book?	How do things move?	How many nursery rhymes do I know?
		Links to computing – Using google maps, remote controlled cars	Links to computing – iPads to take photographs, voice recorders	Links to computing – Composing music on the interactive whiteboard/iPads, recording videos of music/singing on iPads.	Links to computing – Online books/book apps. Wind up animals and toys with levers and buttons.	Links to computing – Bee bots Bee Bots	Links to computing – Using the interactive whiteboard to listen to nursery rhymes, composing music on the iPad, recording performances.
		Main topic focus - Understanding the world		Main topic focus – Expressive arts and design/ Understanding the world	Main topic focus - Literacy	Main topic focus - Understanding the world	Main topic focus - Literacy

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