

Computing, IT and Business Learning Map



Year	Autumn	Spring	Summer
real	Autumm	Spring Children to practice basic skills for computing through each term.	Summer
	Aiiiis	Children learn how to log in and access different websites or apps using co	mputers, iPads and laptops.
		Children should be aware of the careers availed through technology.	
		Children should produce a final outcome that demonstrates skills learnt at the Children should have the opportunities to display, present or demonstrate the	
	Understanding The World Technology	Understanding The World Technology	Understanding The World Technology
	(30-50 months) Continuous Prevision	(40-60 months) Continuous Prevision	(ELG) Continuous Prevision
Nursery	To know how to operate simple equipment.	To complete a simple program on a computer.	To recognise that a range of technology is used in places such as homes and schools.
	To show an interest in technological toys with knobs or pulleys, or real objects.	To interact with age-appropriate computer software.	To select and use technology for particular purposes.
	To show skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images.		
	To know that information can be retrieved from computer.		
	Learning to be E-Safe	Learning to create Digital Photos and Videos	Learning to create Digital Art
	Not talking to strangers,	Knows how to operate simple equipment (30-50 months),	Chooses particularly colours to use for a purpose (40-60 months),
	If something is wrong tell an adult you trust,	Choose particular colours for a purpose (40-60 months),	Create simple representations of events, people and objects. (Early Learning Goals),
	Hector's World,	Communication and Language (Speaking)	,
	Smartie the Penguin, Penguin Pig,	Writing (Early Learning Goals),	They select technology for a particular purpose (Early Learning Goals) Learning to create Digital Sounds and Music
	Sharing messages online,	Learning to Program and Code	Learning to create Digital Sounds and Music
Reception	Sharing Photos and Videos, Learning to be Computer Literate	(Beebots)	Knows how to operate simple equipment (CD player) (30-50 months),
	Parts of a Computer,	Knows how to operate simple equipment (30-50 months),	Children recognise that a range of technology is used in places such as homes and school,
	Computer Repair Shop (Role Play),	Give explanations (Speaking 30-50 months),	
	Computer Repair Shop (Role Flay),	Mathematics (sequencing),	
	Control a Computer (Mouse and Touch),	377	
		https://www.ilearn2.co.uk/early-years-curriculum.html	
Year 1	Learning to be E-Safe	Learning to Program and Code	Learning to add Text and Images
	Ilearn2 – E-Safety Use technology safely and respectfully, keeping personal information	(Beebots)	Add and resize images.
	private,	Understand what algorithms are; how they are implemented as programs	Add text to label and describe images.
		on digital devices; and that programs execute by following precise and	Learning to add Text and Images
	 Personal information I need to keep safe, use email to safely communicate, 	unambiguous instructions.	Add and resize images.
	 use email to safety communicate, Apply my online safety knowledge to help others make 	Write and debug simple programs and use logical reasoning to predict	Add and redize images.
	 good choices online, 	simple program	Add text to label and describe images.
		Learning to create Digital Music	Learning to create Digital Art

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	 Create, name and date my digital creative work, Safely search for images online, Learning to use Mouse and Keyboard Skills 	Create scales, chords, arpeggios, melodies and rhythm to build a song and experiment with tempo.	Use lines and fill tools to make interesting patterns. (Mondrian project)
	Mouse and keyboard skills; move mouse, left/right click, drag and drop.		
	Typing; Find letters on keyboard and begin touch typing with home row keys.		
		https://www.ilearn2.co.uk/planningks1.html	
	Learning to be E-Safe	Learning to create a Digital Book	Learning to create an Animation
	Ilearn2 – E-Safety Use technology safely and respectfully, keeping personal information private,	Add a book cover with title, author, colour and image.	(use technology purposefully to create, organise, store, manipulate and retrieve digital content),
	A digital footprint,	Add multiple pages based on a theme. Add text on different pages.	Add a background and objects to a frame.
	 Use keywords in an online search, Recognise whether a website is appropriate, 	Add images on different pages to match the theme/text,	Copy/clone a frame and move objects to create an animation.
	Rate and review informative websites,Identify kind and unkind behaviour online,	Add voice recordings to match the text and theme Learning to Program and Code	Create an animation with multiple objects moving simultaneously.
Year 2			Learning to use Data Handling
	Apply our knowledge of safe and sensible online activities to create a safety poster.	(Scratch JR Ipads)	Label a pictogram and add data to each column.
	Learning uses for Technology Recognise common uses of information technology beyond school,	Program movements Program Inputs (touch or clicking),	Edit a table with correct titles and numbers to create a bar chart and pie chart.
	Spot digital technology in school,	Program outputs for audio or text Find errors in a program (debug),	Explain what a pictogram and bar chart shows.
	Find a piece of computer equipment amongst day to day objects and choose the correct definition.	Program conditions (if one sprite hits another)	
		(Sphero coding robots – blocks coding – design and build a robot)	
		https://www.ilearn2.co.uk/planningks1.html	
	Learning to be E-Safe	Learning to Program and Code	Learning to Edit a Document
	Ilearn2 – E-safety	Scratch Chat (Scratch JR)	Copy and Paste text and images.
	Identify online dangers, including people are not who they say they are and the dangers they pose.	Write a simple program with text outputs, wait commands and movement.	Find and replace words.
	How do we communicate and share content online safely, responsibly and respectfully.	Scratch Shapes Write a program with movement and repetition.	Format text for a purpose.
	Cyberbullying,	Scratch Maps Write programs using different inputs; keyboard, mouse and touch	Add an image and edit it inside a document <u>Learning to create a Video Game</u>
Year 3	Websites advertisements,Privacy and passwords,	screen. (Sphero coding robots – blocks coding – build a bridge and code the	Design, add and animate backgrounds.
	 Safely send and receive emails, Communicate online, 	robots to cross it Learning to create Digital Art	Design and add characters/objects. Design and add platforms.
	Use knowledge about online safety to plan a party. <u>Learning to create a Digital Comic</u>	Use stamps to build graphics and copy and paste to speed up process.	Demonstrate effective creation of different types of games (platform, flying,
	Add, resize and organise colour or picture backgrounds.	Use different shapes (outlines and fill) and label them with text.	puzzle). Create an app store listing with icon, effective description and screenshots.
	Add, resize, organise characters/object to different panels.	Use select, copy and paste to duplicate elements.	Crosses an app store noting with room, emotive description and screenshits.
	Add narration using text and direct speech using speech bubbles	Transform elements to create symmetry and patterns. Zoom in to add detail.	
		https://www.ilearn2.co.uk/year3.html	1
	Learning to be E-Safe	Learning to use Internet Research	Learning to create a 3D Design
Year 4			
	Ilearn2 – E-safety Identify online dangers, including people are not who they say they are	Appreciate how search results are selected and ranked and show awareness of different straggles for finding specific information.	Understand 3D spacial awareness,
	and the dangers they pose.	Use search technologies (different websites) to find specific pieces of	Add 3D shapes, resize, adjust height, duplicate and use the different perspective.
		information.	

	How do we communicate and share content online safely, responsibly		Re-create different types of buildings using 3D shapes.
	and respectfully.	Reference the correct source of information.	The Greate americal types of buildings doing ob shapes.
			Create roads/paths by adjusting the height of 3D shapes.
	Identify how a message can hurt someone's feelings,	Be discerning in evaluating digital content.	Add windows and door shapes
	use a search engine accurately,'Plagiarism' and how to avoid it,	Check the internet for fake news by cross-referencing facts.	Learning to design an App
	Create a safe online profile,	Learning to Program and Code	
	Be a responsible digital citizen,		Adjust slide size to mimic a phone/tablet size.
		Scratch Racing Program inputs with loops. Use conditions and sensing for interactions.	Add text and images to a slide.
	Create an online safety superhero character Learning to create an Ebook	1 rogram inputs with loops. Ose conditions and sensing for interactions.	Add text and images to a slide.
	Learning to create an Lbook	Scratch Debug	Add icons and text to use as navigation
	Add page colour and style	Debug a variety of programs.	Dunlingto clides to spects multiple names of the con-
	Add, position and format text on different pages,	Scratch Quiz	Duplicate slides to create multiple pages of the app.
	Add and position images from camera/web,	Program conditions with data variables and operators.	Create hyperlinks to create navigation.
	Add audio, including hiding it behind an object.		
	Add hyperlinks to text and images,	(Sphero coding robots – blocks coding – build a maze and map the robots through it)	
	Add and format shapes,	Tobots tillough it)	
	Use hyperlinks for navigation,		
	<i>y</i> ,		
	Add audio to pages		
	Embed content such as maps/Youtube videos (Youtube videos only possible if your school allows)		
	possible if your contest unemer	https://www.ilearn2.co.uk/year4.html	
	Learning to be E-Safe	Learning to use Data Handling	Learning to Program and Code
	Ilearn2 – E-safety	(Tour Do Erango)	Scratch Sentences
	Communicate and share content online safely, responsibly and	(Tour De France)	Program list variables that chooses randomly.
	respectfully.	Find data from internet (Google maps)	
			Scratch Maze
	identify spam emails,write citations for the websites I use,	Find and present data as a table and suitable chart.	Program inputs, conditions and sensing for interaction, data variables for scoring
	 Create strong passwords, 	Give chart a suitable title and label axis correctly.	and a game timer.
	 How photographs we see online may have been edited. 		2
	Annh anding of the miles to specify a December 1	Use formulae to find totals, averages and maximum/minimum numbers. Learning to create a 3D Design	Scratch Football Program Inputs, outputs, loops, conditions, sensing and variables.
	Apply online safety rules to create a PowerPoint presentation in groups.	Lourning to ordate a OB Besign	1 Togram inpute, outpute, toops, contations, serioling and variables.
Year 5	Learning to create an Ebook	Understand 3D spacial awareness.	(Sphero coding robot – java script – program a light show)
		Add 3D shapes, resize, adjust height, duplicate and use the different	Learning to use Internet Research
	Add page colour and style then position and format text.	perspective.	Be discerning in evaluating digital content.
	Add and position images from camera/internet.		
	,	Re-create different types of buildings using 3D shapes.	Check the internet for fake news by cross-referencing facts.
	Add audio, including hiding it behind an object.	Create roads/paths by adjusting the height of 3D shapes.	
	Add hyperlinks to text and images.		
		Add windows and door shapes.	
	Add and format shapes.		
	Use hyperlinks for navigation.		
	Add audio to page		
		https://www.ilearn2.co.uk/year5preview.html	
	Learning to be E-Safe	Learning the History of computing	Learning to design a Website
	Ilearn2 – E-safety	Design and create digital content to accomplish goals.	Add and format text within a website.
	Communicate and share content online safely, responsibly and		, , , , , , , , , , , , , , , , , , ,
	respectfully.	Use search technologies effectively and be discerning in evaluating digital	Organise sections of web-pages and multiple page with relevant titles.
Year 6	 identify good strategies to deal with cyberbullying, 	content	Add and edit images,
	 Identify good strategies to dear with cyberbullying, Identify secure websites, 	Understand how technology has changed over time. Combine text and	, and and out inagoo,
	 Identify information that I should never share, 	images to present ideas.	Include other features such as hyperlinks, buttons and files.
	identify how the media play a powerful role in		Evaluate other websites and provide constructive feedback.
	 shaping ideas about girls and boys, 		Evaluate other websites and provide constructive reedback.

	 Apply my online safety knowledge to my online, Use my knowledge of online safety to create a multiple choice quiz 	Understand the impact (positive/negative) technological changes have on society.	Make necessary changes to the website based on feedback. Learning to Edit an Image
	Learning to Program and Code	Predict how technology will change in the future. Learning to create using VR	Take and crop a screenshot and understand ratios.
	Program movements using Python Turtle.	Understand what virtual reality is and how it can be used to help people.	Adjust the colours, brightness, contrast and filters.
	Use the PRINT command for text.	Add, move and resize objects in a virtual reality environment	Add drawing and text layers.
	Program a simple calculator in Python.	Animate objects for realism.	Import new images as layers and resize/add effects.
	Program loops to repeat text.	Use code blocks to add movement (with grouping) and interactions	Save finished image to use in other projects.
	Program interactive inputs.	(conditions).	
	(Sphero coding robots – java script – create an algorithm for the bots to tour the school)	Create multiple scenes of VR environments.	
		https://www.ilearn2.co.uk/year6preview.html	1
	E- Safety & Multi Media.	Coding	Web Design
	Students will develop their understanding of staying safe online and in the digital world. They will produce a multimedia presentation to consolidate their learning.	An introduction to basic programming software where students use sequence and programming logic to complete coding tasks.	Using web design software produce a web site that Adventure Quest require, make sure that you give close consideration to:
Year 7	Spreadsheet Modelling Students will develop their modelling skills using Microsoft Excel. The students will create a variety of spreadsheets that incorporate		□ Layout □ Content □ Graphics
	formulas, functions and IF Statements. Students will use charts to display their findings and will develop an understanding of how spread		□ Colour Scheme or background theme □ The Audience who will be viewing the web-site
	sheets can be used.		
	E Safety. Students will build upon their learning from year 7, covering topics including Cyber bullying, social media and the ways in which apps / devices should be used sensibly. They will complete a paper based	Database Students will have an introduction to data handling software (MS Access). Students will learn to sort, search and present findings from a large data	Web Design Using web design software produce a web site that Adventure Quest require, make sure that you give close consideration to:
Year 8	assessment at the end of the unit to show their understanding of the topic. Representation of Data. Students will build their knowledge and	set and understand how this may be used in a real life setting. Coding	□ Layout □ Content □ Graphics
	understanding of Binary. Students will begin to look at data and how binary is converted to denary and vice versa. Simple binary addition will be covered along with some basic logic gates.	An introduction to basic programming software where students use sequence and programming logic to complete coding tasks.	□ Colour Scheme or background theme □ The Audience who will be viewing the web-site
	E Safety WP & Multi Media	Spreadsheet Modelling	Developing Multi Media.
	Use of online technology and office 365 and E Safety. Students will build upon their learning from year 7, covering topics including Cyber bullying, social media and the ways in which apps / devices should be used sensibly. They will complete a paper based	Students will develop their modelling skills using Microsoft Excel. The students will create a variety of spreadsheets that incorporate formulas, functions and IF Statements. Students will use charts to display their	Understand the uses and properties of interactive multimedia product Be able to plan an interactive multimedia product
Year 9	assessment at the end of the unit to show their understanding of the topic. ail.	findings and will develop an understanding of how spread sheets can be used.	Creating and AR model prototype
	Creating interactive multimedia products about E-Safety		Understand the uses and properties of AR product
	 plan an interactive multimedia product create an interactive multimedia product 		
	Use of online technology and office 365		
V 45	R060: TA1 - Planning and designing the spreadsheet solution (1.1 Design tools) TA1.2 HCl design conventions and principles (1.2.1Functionality, 1.2.2Types of outputs,1.2.3 HCl navigation) TA2 Creating the spreadsheet solution (2.1.1 Data handling & manipulation,	R060: TA1 - Planning and designing the spreadsheet solution (1.1 Design tools) TA1.2 HCl design conventions and principles (1.2.1Functionality, 1.2.2Types of outputs,1.2.3 HCl navigation) TA2 Creating the spreadsheet solution (2.1.1 Data handling & manipulation,	R050: Cyber-security and legislation (4.2 impact of attacks, 4.3 Prevention measures, 4.4 Legislation related to the use of IT systems) R050: TA5 - Digital communications (5.1 Types, 5.2 Software, 5.3 Digital
Year 10	2.1.2 Techniques to generate the outputs, 2.1.3 User interface) R060: NEA Assessment (completion)	2.1.2 Techniques to generate the outputs, 2.1.3 User interface) R060: NEA Assessment (completion)	devices, 5.4 Distribution channels, 5.5 Audience demographics) TA6 - Internet of Everything (IoE) (6.1 Use of IoE, 6.2 Application areas in everyday life)

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