

Computing, IT and Business Learning Map



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Year	Aut	ımn	5ρ	ring	Sumi	ner	
Nursery	Computing is interwoven into the different learning areas in EYFS.						
Reception			Computing is interwoven into the different learning areas in EYFS.				
Reception	https://www.ilearn2.co.uk/early-years-curriculum.html						
	Basic Skills	Mouse and Keyboard	Coding and Programming	Text and Images	Comic Creation	Digital Art	
Year 1	To login with different devices using my school login (computer, laptops and tablets), To be able access the internet. Online Safety To know when to take breaks from device time, To be respectful of people while using devices, To learn how to Stay safe online,	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.	Beebots – children create an algorithm to move the Beebot to the correct place. Understand sequence and algorithms. Sequence instructions (commands) to achieve an objective. Use distances in commands. Predict, write, execute and debug a simple program.	Add, move and resize images. Add text and adjust size and placement. Add, resize and place images on a page then add and position text to label and describe images. Use word banks to write sentences about images.	Add, resize and organise colour or picture backgrounds Add, resize, organise characters/objects to different panels. Add narration using text and direct speech using speech bubbles	Change the colour of individual pixels to accurately re-create basic artwork. Make changes where required. Change the colour of individual pixels to accurately re-create detailed artwork.	
	Basic Skills	Typing	https://www.ilearn/ Develop Programming	2.co.uk/planningks1.html Ebook	Data handling and research	Animation	
Year 2	To login with different devices using my school login (computer, laptops and tablets), To be able access and use school websites like seesaw, TT Rockstars and Myon Online Safety To understand the importance of being safe, responsible and	Using a computer keyboard, Use correct hand position and fingers for touch typing, Develop touch typing skills, Recognise uses of IT Recognise common uses of information technology beyond school;	Beebots – children design and create a maze, create an algorithm to move the beebot through the maze. Create and debug simple programs by selecting code blocks, placing them in the correct sequence and executing a program. Use logical reasoning to predict	Add a book cover with title, author, colour and image. Add multiple pages based on a theme. Add text on different pages. Add images on different pages to match the theme/text, Add voice recordings to match the text and theme.	Understand what data is and collect it as a tally. Use software to label a pictogram and add data to each column. Edit a table with correct titles and numbers. Use software to create a bar chart/pie chart/line chart suitable for the data.	Add a background and objects to a frame (including text) Copy/clone a frame and move objects to create an animation, including flipping objects. Create an animation with multiple objects moving simultaneously.	
	respectful online, To recognise the different kinds of feelings they can have when using technology. To identify websites or apps that are right for them.	Understand computers store and follow instructions. Spot digital technology in school or at home. Find a piece of computer equipment amongst day to day objects and choose the correct	the behaviour of simple programs. Simplify a program by using a loop.		Interpret a pictogram/bar chart/line chart.		

digital citizen, To recognise ways in which devices can be distracting, To identify what kind of information I should keep private on the internet, To learn about our digital footprints, To understand what online meanness can look like, Pontine Safety To understand what I am digital citizen, To recognise ways in which devices can be distracting, To identify what kind of information I should keep private on the internet, To understand what lam digital citizen, To recognise ways in which devices can be distracting, To identify what kind of information I should keep private on the internet, To understand how people can connect on the internet, To understand what online meanness can look like, Design, write and debug programs that accomplish specific goals. (Including outputs) Write a program with conditions to create an if statement, Write a program with variables, including formatting text. Search for objects to use. https://www.ilearn2.co.uk/year3.html Double Safety To understand what I am Programming in Scratch Sphero – Create an algorithm to Sphero – Create an algorithm to Add anarration and speech bubbles, including or matter including characters, including characters, including characters, including characters, including characters, including chara	ppy/paste, layers
Programming in Scratch To understand how to be a good digital clitzen, To recognise ways in which devices can be distracting, To identify what kind of information 1 should keep private on the internet, To understand how people can connect on the internet, To understand what online meanness can look like, Programming in Scratch Sphero – Create an algorithm to guide the robot through a maze specified for a spreadsheet (fill colour and border) Programming in Scratch Sphero – Design a robot and code using Sphero play app. Create a 3D place using various design tools, Create a 3D place using various design tools, Add and edit characters, including characters, including character using inputs, (Including outputs) Write a program with conditions to create an if statement, Write a program with variables, To understand how people can connect on the internet, To understand what online meanness can look like, Programming in Scratch Sphero – Design a robot and code using Sphero play app. Sphero – Design a robot and code using Sphero play app. Create a 3D place using various design tools, Create a 3D place using various design tools, Add and edit characters, including characters, including character using inputs, Add and edit characters, including characters, including character using inputs, Add and edit characters, including characters, including characters, including characters, including character using inputs, Write a program with conditions, to create an if statement, Write a program with variables, Write a program with variables, Duplicate objects to match scenes. As Search for objects to use. Speriment with keyboard shortcuts Experiment with keyboard shortcuts Experiment with keyboard shortcuts Experiment with keyboard shortcuts Experiment with keyboard shortcuts Experiment with keyboard shortcuts Experiment with keyboard shortcuts Experiment with keyboard shortcuts Experiment with keyboard shortcuts Experiment with keyboard shortcuts Experiment with keyboard shortcuts Experiment with keyboard short	rotation to create , copy/paste, zoom te reflective ts. ppy/paste, layers tmes to create
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design tools, To recognise ways in which devices can be distracting, To identify what kind of information I should keep private on the internet, To understand how people can connect on the internet, To understand what online meanness can look like, Online Safety Online Safety Online Safety Design, write and debug programs that accomplish specific goals. (Induding outputs) Write a program to control a character using inputs, Write a program with conditions to create an if statement, Write a program with variables, I write a program with variables, including formatting text. Write a program with variables, including formatting text. Write a program with variables, including formatting text. Write a program with variables, including formatting text. Add anarration and speech bubbles, including formatting text. Add bullet points to make lists Experiment with keyboard shortcuts Write a program with variables, including formatting text. As Search for objects to use. Online Safety To understand what I am responsible for online, given be distracting, To identify what kind of information I should keep private on the internet, Write a program with variables, including formatting text. Write a program with variables, including formatting text. As Search for objects to match scenes. As Search for objects to use. Search for objects to use. To understand what I am responsible for online, To understand what I am responsible for	rotation to create , copy/paste, zoom te reflective ts. ppy/paste, layers imes to create
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Year 3 I should keep private on the internet, To learn about our digital footprints, To understand how people can connect on the internet, To understand what online meanness can look like, Online Safety To understand what I am responsible for online, To understand how people can can to understand to understand with variables, Write a program with variables, Write a program with variables, Write a program with variables, Understand how people can can the understand	ppy/paste, layers mes to create
Work with various form of inputs; keyboard, mouse and touch screen. To understand how people can connect on the internet, To understand what online meanness can look like, Online Safety To understand what I am responsible for online, To learn about our digital footprints, inputs; keyboard, mouse and touch screen. Write a program with variables, Write a program with variables, As Search for objects to use. Experiment with keyboard shortcuts Experiment with keyboard shortcuts As Search for objects to match scenes. Experiment with keyboard shortcuts and multiple fration and make GIF of the special speci	mes to create
To understand how people can connect on the internet, To understand what online meanness can look like, To understand what online meanness can look like,	
To understand what online meanness can look like, Mittps://www.ilearn2.co.uk/year3.html	
Online SafetyProgramming in ScratchInternet researchEbook CreationData handlingAnimationTo understand what I am responsible for online,Sphero – Create an algorithm to guide the robot through a mazeAppreciate how search results are selected and ranked and are selected and ranked andAdd page colour and style,Change appearance of cells in a spreadsheet (fill colour and border)Create a stop-material by duplicating selected and ranked and	
To understand what I am responsible for online, Sphero – Create an algorithm to guide the robot through a maze Appreciate how search results are selected and ranked and spreadsheet (fill colour and border) Add page colour and style, Change appearance of cells in a spreadsheet (fill colour and border) by duplicating spreadsheet (fill colour and border)	
responsible for online, guide the robot through a maze are selected and ranked and spreadsheet (fill colour and border) by duplicating s	
I ISING SUBEROUS AND I SUOM SWALDINGS OF I AND DUSTRION AND TOTAL	slides that include
To create strong and memorable passwords, Use sequence, selection, and different straggles for finding specific information, different pages, specific information, find and add data to a spreadsheet, Create animatic	on using transition
online can affect me, Work with variables and various Internet Browser taking and editing	pulse etc), including ng a screenshot.
Year 4 To define what an online community is, forms of input and output. To define what an online community is, forms of input and output. Use search technologies (different websites) to find (different websites) to find objects.	ual elements of
To know what to do if someone uses hurtful language online, goals. (correcting errors) specific pieces of information, Add hyperlinks to text and images Add and format shapes, Reference the correct source of Reference the correct source of	,
To recognise that photos and information, Use hyperlinks for navigation,	
videos can be digitally altered, Be discerning in evaluating digital content, Add audio to pages,	
Check the internet for fake news by cross-referencing facts, https://www.ilearn2.co.uk/year4.html	
Online Safety Programming in Scratch Programming with Sphero Ebook Quiz Creation Data handling App design	
To make healthy media choices, Program list variables that chooses randomly. Understanding Bluetooth Technology as Input Device, Add page colour and style, Select and use non-adjacent cells plus resize multiple cell widths and software (Power)	presentation erPoint) to design an
To know what information is okay to share. Program inputs, Write programs for the Sphero Add, position and format text on different pages, Add, position and format text on different pages,	, ,
my digital footprint, scoring	background colour
To know how to be positive while playing online games, and a game timer. Write a program to trace a maze/route with Sphero and Debugy. Program Inputs, outputs, loops, bug, Write a program to trace a maze/route with Sphero and Debugy. Add audio, including hiding it behind an object, and maximum/minimum numbers, transparent image transparent image.	on Control
To recognise cyber bullying, conditions, sensing and variables. Write a program with outputs, Write a program with outputs, Search for shapes Add hyperlinks to text and images, Information, Search a database for specific information,	es (including ages) on different

	To describe their responsibilities as digital creators,		Write a program with random variables,	Lock and arrange shapes (extension task),		Use Icons		
			h	la a colobra anti-mana di constituta l		Interactions using hyperlinks		
	Outline Outline	D		2.co.uk/year5preview.html	On the state of th	E Program Income		
	Online Safety	Programming in Scratch	Create a VR Environment	Web Design	Computers: Past, Present and Future	Editing an Image		
	To understand media balance, To know how to avoid click bait,	Sphero – play a game of football and create an algorithm to score a goal using the Sphero Edu app.	What virtual reality is and how it can be used to help people.	Use and combine a variety of software (including internet services) to design and create	Design and create digital content to accomplish goals,	Take and crop a screenshot and learn about ratios?		
	To know how gender stereotypes	Program inputs, conditions, random	Add, move and resize objects in	content that accomplishes given goals.	Use search technologies effectively and be discerning in evaluating digital	Adjust the colours, brightness, contrast and filters,		
	shape our online experience,	variables for unpredictability, game timer.	a virtual reality environment	Add and format text within a	content,	Add drawing and text layers,		
Year 6	To understand how to keep online friendships safe, To identify and stop cyber bullying,	Program inputs, conditions, sensing, random variables, operators for direction and data variables for scoring.	Animate objects for realism.	website. Organise sections and pages.	Understand how technology has changed over time and represent it as an interactive timeline,	Import new images as layers and resize/add effects,		
	To identify the important parts of an online news article,	Use inputs, conditions, loops, sensing, costume changes and broadcasts.	Use code blocks to add movement (with grouping) and interactions (conditions).	Add and edit images. Include other features such as hyperlinks, buttons and files.	Understand the impact (positive/negative) technological changes have on society,	Save finished image to use in other projects.		
		Work with multiple sprites to send broadcast messages between them.	Create multiple scenes of VR environments	Evaluate other websites and provide constructive feedback.	Predict how technology will change in the future.			
				Make necessary changes to the website based on feedback.				
	https://www.ilearn2.co.uk/year6preview.html							
Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
	E- Safety & Multi Media	Spreadsheet Modelling	Games Design	Games Design	Web Design	Web Design		
	Students will develop their understanding of staying safe	Students will develop their modelling skills using Microsoft	An introduction to Game Maker	An introduction to Game Maker	Students will develop their skills in Web Design Software			

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	E- Safety & Multi Media	Spreadsheet Modelling	Games Design	Games Design	Web Design	Web Design
Year 7	Students will develop their understanding of staying safe online and in the digital world. They will produce a multimedia presentation to consolidate their learning.	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 findings and will develop an understanding of how spread sheets can be used.	An introduction to Game Maker basic programming software where students design a game. Students will be expected to plan, create and evaluate a maze game of their choosing using the comic strip from the previous unit.	An introduction to Game Maker basic programming software where students design a game. Students will be expected to plan, create and evaluate a maze game of their choosing using the comic strip from the previous unit.	Students will develop their skills in Web Design Software	
	E Safety	Representation of Data	Database	Games Design	Web Design	Web Design
Year 8	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 assessment at the end of the unit to show their understanding of the topic.	Students will have an introduction to data handling software (MS Access). Students will learn to sort, search and present findings from a large data set and understand how this may be used in a real life setting.	Students will have an introduction to data handling software (MS Access). Students will learn to sort, search and present findings from a large data set and understand how this may be used in a real life setting.	An introduction to Game Maker basic programming software where students design a game. Students will be expected to plan, create and evaluate a maze game of their choosing using the comic strip from the previous unit.	Students will develop their skills in Web Design Software	
	E- Safety & Multi Media	Creating interactive multimedia products about E-Safety	Developing Digital Graphics	Developing Digital Graphics	Pre-Production Documents	Pre-Production Documents
Year 9	Use of online technology and office 365 and email.	Use of online technology and office 365 and email.	Students will learn how to edit	Students will learn how to edit and	Understand the purpose, content and uses of different pre-production	
	303 and email.	303 and email.	and manipulate digital graphics.	manipulate digital graphics.	documents, purpose, where are they	
	Creating interactive multimedia	Creating interactive multimedia	File Formats	File Formats	used and content.	
	products about E-Safety	products about E-Safety	Compression	Compression	Community Country	
	• plan an interactive multimedia	plan an interactive multimedia	Legislation	Legislation	Computer Systems Hardware & Software	
	plan an interactive multimedia product	product			Pre-Production documents	

	create an interactive multimedia	create an interactive multimedia				
	product	product				
	RO81 planning the product of	RO81 planning the product of	Computing RO87 Creating	Computing RO87 Creating	Computing RO87 Creating	Computing RO87 Creating
	media products. (Exam	media products. (Exam	interactive multimedia	interactive multimedia products	interactive multimedia products	interactive multimedia products
	Preparation). Computing RO87	Preparation). Computing RO87	products (Coursework) LO1 &	(Coursework) LO1 & LO2	(Coursework) LO3 & LO4	(Coursework) LO3 & LO4
	Creating interactive multimedia	Creating interactive multimedia	LO2	(60060, 201	(000.00, 200 0.20.	(comesmonly loss of loss
	products	products				
	RO81 • Knowledge of	RO81 planning the product of	LO1 Understand the uses and	LO1 Understand the uses and	LO1 Understand the uses and	LO1 Understand the uses and
	preproduction concepts,	media products. (Exam	properties of interactive	properties of interactive multimedia	properties of interactive multimedia	properties of interactive multimedia
	techniques, research, legislation	Preparation)	multimedia product	product	product	product
	and planning considerations. • Skills	 Knowledge of 	LO2 Be able to plan an	LO2 Be able to plan an interactive	LO2 Be able to plan an interactive	LO2 Be able to plan an interactive
	in creating and reviewing the	preproduction concepts,	interactive multimedia product	multimedia product	multimedia product	multimedia product
	different types of pre-production	techniques, research, legislation				
Year 10	documents • Understanding pre-	and planning considerations.				
	production concepts by applying	Skills in creating and				
	knowledge to specific scenarios	reviewing the different types of pre-				
	RO87 Creating interactive multimedia products	production documents • Understanding pre-				
	LO1 Understand the uses and	production concepts by applying				
	properties of interactive multimedia	knowledge to specific scenarios				
	product	положи по прости				
	LO2 Be able to plan an interactive	Computing RO87 Creating				
	multimedia product	interactive multimedia products				
		LO3 Be able to create an				
		interactive multimedia product				
		LO4 Be able to review an				
	RO81 planning the product of	RO81 planning the product of	Computing RO81 Exam .			
	media products. (Exam	media products. (Exam	RO81 planning the product of			
	Preparation). Computing RO87	Preparation). Computing RO87	media products. (Exam			
	Creating interactive multimedia	Creating interactive multimedia	Preparation). Re-Sit			
	products	products	Preparation			
	RO81 • Knowledge of	RO81 planning the product of	RO81 planning the product of	RO81 planning the product of	RO81 planning the product of media	
	preproduction concepts,	media products. (Exam	media products. (Exam	media products. (Exam	products. (Exam Preparation)	
	techniques, research, legislation	Preparation)	Preparation)	Preparation)	Knowledge of preproduction	
	and planning considerations. • Skills	Knowledge of preproduction	Knowledge of preproduction	Knowledge of preproduction	concepts, techniques, research,	
	in creating and reviewing the	concepts, techniques, research,	concepts, techniques, research,	concepts, techniques, research,	legislation and planning	
Voor 11	different types of pre-production	legislation and planning	legislation and planning	legislation and planning	considerations.	
Year 11	documents • Understanding pre- production concepts by applying	considerations. • Skills in creating and reviewing	considerations. • Skills in creating and reviewing	considerations. • Skills in creating and reviewing	Skills in creating and reviewing the different types of pre-production	
	knowledge to specific scenarios	the different types of pre-production	the different types of pre-	the different types of pre-production	documents	
	RO87 Creating interactive	documents	production documents	documents	Understanding pre-production	
	multimedia products	Understanding pre-production	Understanding pre-production	Understanding pre-production	concepts by applying knowledge to	
	LO1 Understand the uses and	concepts by applying knowledge to	concepts by applying knowledge	concepts by applying knowledge to	specific scenarios	
	properties of interactive multimedia	specific scenarios	to specific scenarios	specific scenarios		
	product					
	LO2 Be able to plan an interactive	Computing RO87 Creating			Computing R081 Exam	
	multimedia product	interactive multimedia products				
		LO3 Be able to create an				
		interactive multimedia product LO4 Be able to review an				
		interactive multimedia product				
		interactive multimedia product				

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