



Teach Computing Curriculum Map

Welcome to the **Teach Computing Curriculum Map**, this document provides an overview of the units and lessons designed for students aged 5-7 (Key Stage 1). Additional mapping documents are available for other ages at teachcomputing.org/curriculum.

Use this document to explore the curriculum, how it is structured and most importantly how it meets the objectives of the English national curriculum. You can also use this document to discover how the curriculum content connects to other frameworks such as **Education for a connected world** and various exam specifications (where relevant).

You are also able to explore progression within the curriculum materials as each objective is mapped to one or more of the 10 strands within our content taxonomy. For example if you want to understand how skills and concepts around **networks** are developed you can do so, by simply filtering your view to hide all non-network related objectives.

On the next sheet you'll find details of every unit, lesson and learning objective

To filter a column, click the filter control button in the column header and select the desired data from the drop down menu

National Curriculum Links

1.1 1.2 1.3 1.4 1.5 1.6

Statement Number	National Curriculum Statement
1.1	understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
1.2	create and debug simple programs
1.3	use logical reasoning to predict the behaviour of simple programs
1.4	use technology purposefully to create, organise, store, manipulate and retrieve digital content
1.5	recognise common uses of information technology beyond school
1.6	use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

Teach Computing Taxonomy		
Abbreviation	Strand	Description
NW	Networks	Understand how networks can be used to retrieve and share information and come with associated risks
CM	Creating Media	Select and create a range of media including text, images, sounds and video.
DI	Data & Information	How is data stored, organised and used to represent real world artefacts and scenarios
DD	Design & Deveopment	The activities involved in planning, creating and evaluating computing artefacts
CS	Computing Systems	What is a computer, how do it's constituent parts function together as a whole
IT	Impact of Technology	How individuals, systems and society as a whole interact with computer systems
AL	Algorithms	Being able to comprehend, design, create and evaluate algorithms
PG	Programming	Creating software to allow computers to solve problems
ET	Effective Use of tools	Use software tools to support computing work
SS	Safety & Security	Understanding risks when using technology and how to protect individuals and systems

Year Group	Suggested Order	Unit Name	Lesson	Learning Objectives	Success Criteria	National Curriculum Links						Teach Computing Taxonomy								Cross Curricular Links	Education for a Connected World			
						1.1	1.2	1.3	1.4	1.5	1.6	AL	CM	CS	DD	DI	ET	IT	NW			PG	SS	
1	1	Computing systems and networks – Technology around us	1	To identify technology	- I can explain how these technology examples help us - I can explain technology as something that helps us - I can locate examples of technology in the classroom																			- Copyright and ownership - Health, well-being and lifestyle
1	1	Computing systems and networks – Technology around us	2	To identify a computer and its main parts	- I can name the main parts of a computer - I can switch on and log into a computer - I can use a mouse to click and drag																			- Copyright and ownership - Health, well-being and lifestyle
1	1	Computing systems and networks – Technology around us	3	To use a mouse in different ways	- I can click and drag to make objects on a screen - I can use a mouse to create a picture - I can use a mouse to open a program																			- Copyright and ownership - Health, well-being and lifestyle
1	1	Computing systems and networks – Technology around us	4	To use a keyboard to type on a computer	- I can save my work to a file - I can say what a keyboard is for - I can type my name on a computer - I can delete letters																			- Copyright and ownership - Health, well-being and lifestyle
1	1	Computing systems and networks – Technology around us	5	To use the keyboard to edit text	- I can open my work from a file - I can use the arrow keys to move the cursor																			- Copyright and ownership - Health, well-being and lifestyle
1	1	Computing systems and networks – Technology around us	6	To create rules for using technology responsibly	- I can discuss how we benefit from these rules - I can give examples of some of these rules - I can identify rules to keep us safe and healthy when we are using technology in and beyond the home																			- Copyright and ownership - Health, well-being and lifestyle
1	2	Creating media – Digital painting	1	To describe what different freehand tools do	- I can draw lines on a screen and explain which tools I used - I can make marks on a screen and explain which tools I used - I can use the paint tools to draw a picture																			Art and Design
1	2	Creating media – Digital painting	2	To use the shape tool and the line tools	- I can make marks with the square and line tools - I can use the shape and line tools effectively - I can use the shape and line tools to recreate the work of an artist																			Art and Design
1	2	Creating media – Digital painting	3	To make careful choices when painting a digital picture	- I can choose appropriate shapes - I can create a picture in the style of an artist - I can make appropriate colour choices																			Art and Design
1	2	Creating media – Digital painting	4	To explain why I chose the tools I used	- I can choose appropriate paint tools and colours to recreate the work of an artist - I can say which tools were helpful and why - I know that different paint tools do different jobs - I can change the colour and brush sizes																			Art and Design
1	2	Creating media – Digital painting	5	To use a computer on my own to paint a picture	- I can make dots of colour on the page - I can use dots of colour to create a picture in the style of an artist on my own																			Art and Design
1	2	Creating media – Digital painting	6	To compare painting a picture on a computer and on paper	- I can explain that pictures can be made in lots of different ways - I can say whether I prefer painting using a computer or using paper - I can spot the differences between painting on a computer and on paper																			Art and Design
1	5	Creating media – Digital writing	1	To use a computer to write	- I can identify and find keys on a keyboard - I can open a word processor - I can recognise keys on a keyboard																			English – writing
1	5	Creating media – Digital writing	2	To add and remove text on a computer	- I can enter text into a computer - I can use backspace to remove text - I can use letter, number, and space keys																			English – writing
1	5	Creating media – Digital writing	3	To identify that the look of text can be changed on a computer	- I can explain what the keys that I have learnt about already do - I can identify the toolbar and use bold, italic, and underline - I can type capital letters																			English – writing
1	5	Creating media – Digital writing	4	To make careful choices when changing text	- I can change the font - I can select all of the text by clicking and dragging - I can select a word by double-clicking																			English – writing
1	5	Creating media – Digital writing	5	To explain why I used the tools that I chose	- I can decide if my changes have improved my writing - I can say what tool I used to change the text - I can use 'undo' to remove changes																			English – writing
1	5	Creating media – Digital writing	6	To compare typing on a computer to writing on paper	- I can explain the differences between typing and writing - I can make changes to text on a computer - I can say why I prefer typing or writing																			English – writing
1	4	Data and information – Grouping data	1	To label objects	- I can describe objects using labels - I can identify the label for a group of objects - I can match objects to groups																			- Copyright and ownership
1	4	Data and information – Grouping data	2	To identify that objects can be counted	- I can count a group of objects - I can count objects - I can group objects																			- Copyright and ownership
1	4	Data and information – Grouping data	3	To describe objects in different ways	- I can describe an object - I can describe a property of an object - I can find objects with similar properties																			- Copyright and ownership
1	4	Data and information – Grouping data	4	To count objects with the same properties	- I can count how many objects share a property - I can group objects in more than one way - I can group similar objects																			- Copyright and ownership
1	4	Data and information – Grouping data	5	To compare groups of objects	- I can choose how to group objects - I can describe groups of objects - I can record how many objects are in a group																			- Copyright and ownership
1	4	Data and information – Grouping data	6	To answer questions about groups of objects	- I can compare groups of objects - I can decide how to group objects to answer a question - I can record and share what I have found																			- Copyright and ownership
1	3	Programming A – Moving a robot	1	To explain what a given command will do	- I can match a command to an outcome - I can predict the outcome of a command on a device - I can run a command on a device																			- Privacy and security

