**TEACH COMPUTING OVERVIEW OF UNITS**

**Cycle A: 2023-24** **Cycle B: 2024-25**

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| **EYFS** | **Understanding the World (Technology)*** Recognise that a range of technology is used in places such as homes and schools
* Select and use technology for particular purposes
* Understand that you may have to put your name/password into the device to retrieve your own files
* Understand that you can connect with others via a device
* Experience digital devices with an input/output
* Change the output of a device/toy by altering the input
* Use the keyboard to enter their own name and print a document
* Use the keyboard and mouse to move a character around a game
* Experience recoding their own voice and hearing the playback
* Experience videos of self and ability to re-watch
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|  | **Computing systems****and networks** | **Creating media** | **Programming A** | **Data and information** | **Creating media** | **Programming B** |
| **CLASS 1: YEAR 1/2** | [Technology around us (1.1)](https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-technology-around-us)Recognising technology in school and using it responsibly | [Digital painting (1.2)](https://teachcomputing.org/curriculum/key-stage-1/creating-media-digital-painting)Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally. | [Moving a robot (1.3)](https://teachcomputing.org/curriculum/key-stage-1/programming-a-moving-a-robot)Writing short algorithms and programs for floor robots, and predicting program outcomes | [Grouping data (1.4)](https://teachcomputing.org/curriculum/key-stage-1/data-and-information-grouping-data)Exploring object labels, then using them to sort and group objects by properties. | [Digital writing (1.5)](https://teachcomputing.org/curriculum/key-stage-1/creating-media-digital-writing)Using a computer to create and format text, before comparing to writing non-digitally. | [Programming animations (1.6)](https://teachcomputing.org/curriculum/key-stage-1/programming-b-introduction-to-animation)Designing and programming the movement of a character on screen to tell stories. |
| [Information technology around us (2.1)](https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-it-around-us)Identifying IT and how its responsible use improves our world in school and beyond. | [Digital photography (2.2)](https://teachcomputing.org/curriculum/key-stage-1/creating-media-digital-photography)Capturing and changing digital photographs for different purposes | [Robot algorithms (2.3)](https://teachcomputing.org/curriculum/key-stage-1/programming-a-robot-algorithms)Creating and debugging programs, and using logical reasoning to make predictions. | [Pictograms (2.4)](https://teachcomputing.org/curriculum/key-stage-1/data-and-information-pictograms)Collecting data in tally charts and using attributes to organise and present data on a computer. | [Digital music (2.5)](https://teachcomputing.org/curriculum/key-stage-1/creating-media-making-music)Using a computer as a tool to explore rhythms and melodies, before creating a musical composition. | [Programming quizzes (2.6)](https://teachcomputing.org/curriculum/key-stage-1/programming-b-an-introduction-to-quizzes)Designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz. |
| **CLASS 2: YEAR 3/4** | [Connecting computers (3.1)](https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-connecting-computers)Identifying that digitaldevices have inputs,processes, and outputs,and how devices can be connectedto make networks | [Stop-frame animation (3.2)](https://teachcomputing.org/curriculum/key-stage-2/creating-media-animation)Capturing and editing digital still images to produce a stop-frame animation that tells a story. | [Sequencing sounds (3.3)](https://teachcomputing.org/curriculum/key-stage-2/programming-a-sequence-in-music)Creating sequences in a block-based programming language to make music. | [Branching databases (3.4)](https://teachcomputing.org/curriculum/key-stage-2/data-and-information-branching-databases)Building and using branching databases to group objects using yes/no questions. | [Desktop publishing (3.5)](https://teachcomputing.org/curriculum/key-stage-2/creating-media-desktop-publishing)Creating documents by modifying text, images, and page layouts for a specified purpose. | [Events and actions in programs (3.6)](https://teachcomputing.org/curriculum/key-stage-2/programming-b-events-and-actions)Writing algorithms and programs that use a range of events to trigger sequences of actions. |
| [The internet (4.1)](https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-the-internet)Recognising the internet as a network of networks including the WWW, and why we should evaluate online content. | [Audio production (4.2)](https://teachcomputing.org/curriculum/key-stage-2/creating-media-audio-editing)Capturing and editing audio to produce a podcast, ensuring that copyright is considered. | [Repetition in shapes (4.3)](https://teachcomputing.org/curriculum/key-stage-2/programming-a-repetition-in-shapes)Using a text-based programming language to explore count-controlled loops when drawing shapes | [Data logging (4.4)](https://teachcomputing.org/curriculum/key-stage-2/data-and-information-data-logging)Recognising how and why data is collected over time, before using data loggers to carry out an investigation | [Photo editing (4.5)](https://teachcomputing.org/curriculum/key-stage-2/creating-media-photo-editing)Manipulating digital images, and reflecting on the impact of changes and whether the required purpose is fulfilled. | [Repetition in games (4.6)](https://teachcomputing.org/curriculum/key-stage-2/programming-b-repetition-in-games)Using a block-based programming language to explore count-controlled and infinite loops when creating a game |
| **CLASS 3: YEAR 5/6** | [Systems and searching (5.1)](https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-sharing-information)Recognising IT systems in the world and how some can enable searching on the internet. | [Video production (5.2)](https://teachcomputing.org/curriculum/key-stage-2/creating-media-video-editing)Planning, capturing, and editing video to produce a short film. | [Selection in physical computing (5.3)](https://teachcomputing.org/curriculum/key-stage-2/programming-a-selection-in-physical-computing)Exploring conditions and selection using a programmable microcontroller. | [Flat-file databases (5.4)](https://teachcomputing.org/curriculum/key-stage-2/data-and-information-flat-file-databases)Using a database to order data and create charts to answer questions. | [Introduction to vector graphics (5.5)](https://teachcomputing.org/curriculum/key-stage-2/creating-media-vector-drawing)Creating images in a drawing program by using layers and groups of objects | [Selection in quizzes (5.6)](https://teachcomputing.org/curriculum/key-stage-2/programming-b-selection-in-quizzes)Exploring selection in programming to design and code an interactive quiz. |
| [Communication and collaboration (6.2)](https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-communication)Exploring how data is transferred by working collaboratively online. | [Webpage creation (6.2)](https://teachcomputing.org/curriculum/key-stage-2/creating-media-web-page-creation)Designing and creating webpages, giving consideration to copyright, aesthetics, and navigation. | [Variables in games (6.3)](https://teachcomputing.org/curriculum/key-stage-2/programming-a-variables-in-games)Exploring variables when designing and coding a game. | [Introduction to spreadsheets (6.4)](https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets)Answering questions by using spreadsheets to organise and calculate data. | [3D modelling (6.5)](https://teachcomputing.org/curriculum/key-stage-2/creating-media-3d-modelling)Planning, developing, and evaluating 3D computer models of physical objects | [Sensing movement (6.6)](https://teachcomputing.org/curriculum/key-stage-2/programming-b-sensing)Designing and coding a project that captures inputs from a physical device. |

The Teach Computing curriculum is structured into units for each year group, and each unit is broken down into lessons. Units can generally be taught in any order, with the exception of programming, where concepts and skills rely on prior knowledge and experiences. Lessons must be taught in numerical order.