



Computing Curriculum and Knowledge Map



UKS2

The Internet (Y4)

I can **describe** how content can be added and accessed on the World Wide Web – basic

I can **explain** how the content on the World Wide Web is created by people – advancing

I can **summarise** why information I find on the internet may not be honest, accurate or legal - deep

Programming B (Y3) – Events and Actions in Programs

I can **create** a program on Scratch to move a sprite in four directions – basic

I can **identify** additional features to add to a program - advancing

I can **propose** improvements to a project - deep

Programming A (Y4) – Repetition in Shapes

I can **create** a program in a text based language to achieve an outcome – basic

I can **explain** when the 'repeat' command could be used in a program - advancing

I can **justify** reasons for using decomposition in programming - deep

Programming B (Y4) - Repetition in Games

I can **create** a program that uses count-controlled and infinite loops – basic

I can **compare** count-controlled and infinite loops and **identify** suitable purposes for these - advancing

I can **propose** ways to fix and refine a program - deep

Programming A (Y3) – Sequencing Sounds

I can **describe** a section of code as a sequence and **create** a sequence of commands to have an outcome – basic

I can **list** ways to change the appearance of my project - basic

I can test my code and **explain** if it performed how I expected – advancing

Connecting Computers (Y3)

I can **list** similarities and differences between using digital devices and non-digital tools – basic

I can **describe** the need for a computer network to share information and demonstrate how this works – basic

I can **identify** the benefits of computer networks - advancing

Programming B (Y4) - Repetition in Games

I can **create** a program that uses count-controlled and infinite loops – basic

I can **describe** the difference between count-controlled and infinite loops - basic

I can **evaluate** the use of repetition in a program - advancing

YEAR 4

The Internet (Y4)

I can **describe** how networks physically connect to other networks – basic

I can **describe** how content can be added and accessed on the World Wide Web – basic

I can **explain** that not everything on the World Wide Web is true - advancing

Programming B (Y3) – Events and Actions in Programs

I can **create** a program on Scratch to move a sprite in four directions – basic

I can **create** a program that uses an extension block on scratch - basic

I can **identify** and fix bug in my program - advancing

Programming A (Y4) - Repetition in Shapes

I can **create** a program in a text based language to achieve an outcome – basic

I can **define** the word 'repeat' and know what command does in a program - basic

I can **explain** decomposition as the breaking down of code into smaller parts to help me to program – advancing

Programming A (Y3) – Sequencing Sounds

I can **describe** a section of code as a sequence – basic

I can **create** a sequence of commands to have an outcome – basic

I can **identify** ways to change the appearance of a project based on an appropriate design- advancing

Year B

Connecting Computers (Y3)

I can list similarities and differences between using digital devices and non-digital tools – basic

I can describe how a computer network can be used to share information - basic

I can explain and demonstrate how information can be passed between devices - advancing

YEAR 3

Stop-frame Animation (Y3)

I can **create** an effective stop-frame animation – basic

I can **identify** ways to improve and edit an animation and **explain** how these improve it - advancing

I can **recognise** improvements to a peer's animation - deep

Photo Editing (Y4)

I can **describe** ways to edit photos – basic

I can choose suitable images for a project and **explain** my choices – advancing

I can **propose** changes to improve an image - advancing

Data Logging (Y4)

I can **collect** data using a data sensor – Basic

I can **present** a question that can be answered using logged data – Advancing

I can **draw conclusions** from the data that I have collected - Deep

Photo Editing (Y4)

I can **create** an image that uses different colours and filters – basic

I can **describe** ways to edit photos – basic

I can choose suitable images for a project and **explain** my choices – advancing

Stop-frame Animation (Y3)

I can **create** an effective stop-frame animation – basic

I can **describe** an animation that is achievable on screen – basic

I can **identify** ways to improve and edit an animation - advancing

YEAR 4

Desktop Publishing (Y3)

I can **describe** the advantages and disadvantages of using text and images – Basic

I can **create** content and make changes in a desktop publishing publication - Basic

I can **compare** different ways that information can be presented and the purpose of these - Advancing

Branching Databases (Y3)

I can **name** attributes to collect data about an object – Basic

I can **create** questions in a branching database that will enable objects to be uniquely identified – Basic

I can **explain** real-world uses for branching databases – Advancing

Audio Production (Y4)

I can **create** audio media – Basic

I can **explain** why adding sound effects and background music enhances my podcast – Advancing

I can **recommend** strengths to other audio recordings - Deep

Year A

Audio Production (Y4)

I can **list** the input and output devices used to record and play sound – Basic

I can **create** audio media – Basic

I can **explain** ways to edit and enhance my podcast - Advancing

Branching Databases (Y3)

I can **list** questions with yes/no answers about a collection of objects, using these to split them into groups – Basic

I can select a group of objects and **create** a branching database – Basic

I can **compare** two branching databases, identifying why questions need to be ordered carefully to split objects into similarly sized groups - Advancing

Desktop Publishing (Y3)

I can **describe** how text and images convey information – Basic

I can **describe** how text and layout can be edited to communicate more clearly – Basic

I can **organise information** by adding content to a desktop publishing publication - Advancing

YEAR 3

Data Logging (Y4)

I can **name** data that can be collected using sensors – Basic

I can **collect** data using a data sensor – Basic

I can **summarise** the data that I have collected – Advancing