| **Term** | **Computing Topic** | **Knowledge and understanding** | **What I will know and remember** | **Vocabulary** |
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| **Online Safety KS2:** Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. |
| **1** | [**Unit 4.1 - Computing systems and networks – The internet**](https://drive.google.com/drive/folders/1kYopclu48Hjm4jddvGUMUIkFfCk7PUi_?usp=sharing) | I can understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration. | I can describe how networks physically connect to other networks.I can recognise how networked devices make up the internet.I can outline how websites can be shared via the World Wide Web.I can describe how content can be added and accessed on the World Wide Web.I can recognise how the content of the WWW is created by people. | **internet**, **network, router**,security, switch, **server**,**wireless access point**(WAP), website, web page,web address, routing, webbrowser, **World Wide Web**,content, **links**, files, use,download, sharing,**ownership, permission**,information, **accurate**,honest, adverts |
| **Online Safety:** Self Image and Identity(Education For A Connected World) |
| **2** | [**Unit 4.5 - Programming A: Repetition in Shapes**](https://drive.google.com/drive/folders/19Idw0V6B6lWoz-yKZSBGrAw2MNBYMuof?usp=sharing) | I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.I can use sequence, selection, and repetition in programs; work with variables and various forms of input and output.I can use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. | I can identify that accuracy in programming is important.I can create a program in a text-based language.I can explain what ‘repeat’ means.I can modify a count-controlled loop to produce a given outcome.I can decompose a program into parts.I can create a program that uses count-controlled loops to produce a given outcome. | **Logo** (programmingenvironment), **program**,turtle, commands, **code****snippet**, algorithm, design,debug, pattern, **repeat/repetition**, **count-controlled****loop**, value, trace,**decompose**, **procedure**. |
| **Online Safety:** Online Relationships(Education For A Connected World) |
| **3** | [**Unit 4.4 - Data and information, Data Logging**](https://drive.google.com/drive/folders/1xqd6rGRjp0p_Nwm6rxTivDYoXIXg5AeR?usp=sharing) | I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information | I can explain that data gathered over time can be used to answer questions.I can use a digital device to collect data automatically. I can explain that a data logger collects ‘data points’ from sensors over time.I can use data collected over a long duration to find information.I can identify the data needed to answer questions.I can use collected data to answer questions.  | **data**, table, layout, **input****device**, **sensor, logger**,logging, **data point**, **interval,**analyse, dataset, **import,****export,** logged, collection,review, conclusion. |
| **Online Safety:** Online Reputation & Online Bullying(Education For A Connected World) |
| **4** | [**Unit 4.2 - Creating media – Audio editing**](https://drive.google.com/drive/folders/1utmub_1Nosw2q-x8TmzIFsQtOJSQ9OId?usp=sharing) | I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information | I can identify digital devices that can record sound and play it back and how they record and playback sounds.I can plan and write content for a podcast and suggest improvements by editing. I can save and open a digital recording as a file and why this is important.I can explain that digital recordings need to be exported to share them. | **audio**, microphone, speaker,headphones, **input device,****output device**, sound,**podcast**, edit, **trim, align,****layer, import**, record,playback, selection, load,save, **export**, **MP3**, evaluate,feedback. |
| **Online Safety:** Managing Online Information(Education For A Connected World) |
| **5** | [**Unit 4.6 - Programming B: Repetition in games**](https://drive.google.com/drive/folders/1G744FtOBNruu2Hf7Xi3wZ8zfE1y4Fk9i?usp=sharing) | I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.I can use sequence, selection, and repetition in programs; work with variables and various forms of input and output.I can use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms  | I can develop the use of count-controlled loops in a different programming environment.I can explain that in programming there are infinite loops and count controlled loops.I can develop a design which includes two or more loops which run at the same time.I can modify an infinite loop in a given program.I can design a project that includes repetition.I can create a project that includes repetition. | Scratch, programming,sprite, blocks, code, **loop,****repeat**, value, **infinite loop,****count-controlled loop**,costume, **repetition, forever**,animate, event block,**duplicate**, modify, design,algorithm, debug, **refine**,evaluate. |
| **Online Safety:** Health, Wellbeing and Lifestyle(Education For A Connected World) |
| **6** | [**Unit 4.3 - Creating media – Photo editing**](https://drive.google.com/drive/folders/1z2tLDyZjmsDKnb07wv3k-eaZn1M7qkc2?usp=sharing) | I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.Use search technologies effectively. | I can explain that digital images can be changed.I can change the composition of an image.I can describe how images can be changed for different uses. I can make good choices when selecting different tools.I can recognise that not all images are real.I can evaluate how changes can improve an image. | image, edit, digital, **crop**,**rotate**, undo, save,**adjustments**, effects,colours, **hue, saturation,****sepia, vignette**, image,**retouch, clone**, select,combine, made up, real,**composite**, cut, copy, paste,alter, background,foreground, zoom, undo,font. |
| **Online Safety:** Privacy and Security & Copyright and Ownership(Education For A Connected World) |