| **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 5.1 - Computing systems and networks - Sharing information creating media**  | 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 explain that computers can be connected together to form systems.I can recognise the role of computer systems in our lives.I can identify how to use a search engine.I can describe how search engines select results.I can explain how search results are ranked.I can recognise why the order of results is important, and to whom. | **system**, connection, digital,**input\*, process\*, storage,****output\***, search, searchengine, **refine**, **index, bot**,ordering, links, algorithm,**search engine optimisation****(SEO)**, **web crawler,** contentcreator, **selection, ranking.** |
| **Online Safety:** Self Image and Identity(Education For A Connected World) |
| **2** | **Programming A - Selection in Physical Computing (Musical Microbit unit)** | Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. | I can read and interpret a range of algorithms.I can write a program to play music.I can follow and modify algorithms.I can write, test and debug programs to play different notes.I can evaluate the micro:bit as a music-making device. | **Selection, condition, microcontroller**, micro:bit, algorithm, repetition, input, output, USB,**components**, connection,**infinite loop\***, component, motor,, count-controlledloop,switch, LED, crocodile clips, connect,battery box, program,condition, action, debug,circuit, power, cell, buzzer |
| **Online Safety:** Online Relationships(Education For A Connected World) |
| **3** | **Unit 5.4 - Data and Information - Flat File Databases** | 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 use a form to record information.I can compare paper and computer-based databases.I can outline how you can answer questions by grouping and then sorting data.I can explain that tools can be used to select specific data.I can explain that computer programs can be used to compare data visually.I can use a real-world database to answer questions. | database, data, information,**record, field**, sort, order,group, search, value, **criteria**,graph, chart, axis, compare,**filter**, presentation. |
| **Online Safety:** Online Reputation & Online Bullying(Education For A Connected World) |
| **4** | **Unit 5.2 - Creating media – Vector drawing** | 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 that drawing tools can be used to produce different outcomes.I can create a vector drawing by combining shapes.I can use tools to achieve a desired effect.I can recognise that vector drawings consist of layers.I can group objects to make them easier to work with.I can apply what I have learned about vector drawings. | **vector,** drawing tools, object,toolbar, **vector drawing**,move, resize, colour, rotate,duplicate/copy, zoom,select, **align**, modify, **layers**,order, copy, paste, group,ungroup, reuse, reflection |
| **Online Safety:** Managing Online Information(Education For A Connected World) |
| **5** | **Unit 5.6 - Programming B - Selection in Quizzes** | Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. | I can explain how selection is used in computer programs.I can explore how a conditional statement connects a condition to an outcome.I can explain how selection directs the flow of a program.I can design a program that uses selection.I can create a program that uses selection.I can evaluate my program. | **Selection**, condition, true,false, **count-controlled loop**,outcomes, **conditional****statement**, algorithm,program, debug, question,answer, task, design, input,**implement**, test, run, setup,operator |
| **Online Safety:** Health, Wellbeing and Lifestyle(Education For A Connected World) |
| **6** | **Unit 5.3 - Creating media – Video Production** | 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 what makes a video effective.I can use a digital device to record video.I can capture video using a range of techniques.I can create a storyboard.I can identify that video can be improved through reshooting and editing.I can consider the impact of the choices made when making and sharing a video. | video, audio, camera, talkinghead, **panning**, close up,video camera, microphone,**lens, mid-range, long shot**,moving subject, side by side,**angle (high, low, normal),****static**, zoom, pan, tilt,storyboard, filming, review,import, **split, trim, clip**, edit,reshoot, delete, reorder,**export**, evaluate, share. |
| **Online Safety:** Privacy and Security & Copyright and Ownership(Education For A Connected World) |