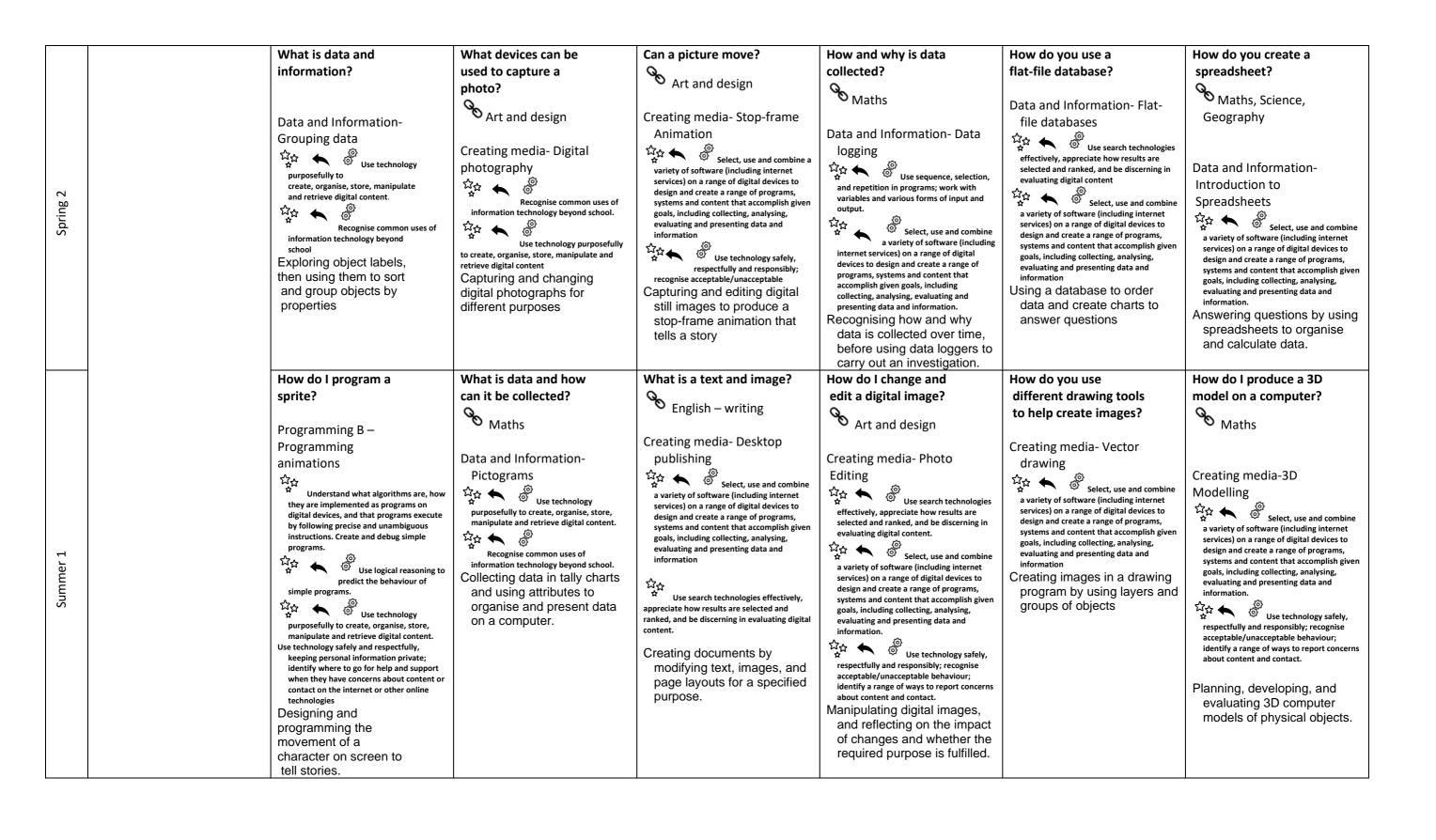
	COMPUTING LONG TERM OVERVIEW									
EYS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
Personal, Social and Emotional Develop Manging Self;  - Be confident to try new and show independence, and perseverance in the face of Explain the reasons for rules, knowning and try to behave; acco  E-Safety;  - Talk about good & bad real life e.g. taking turns, things, helping others, telling a something upsets you Play appropriate games on the li - Talk about good and bad choices websites – being kind, telling a something upsets us & keeping safe by keeping information pr  Technology in our Liv - Recognise purposes for using te school and at home Understand that things belong to them and can be others using technology Recognise that they can use the play and learn.  Expressive Art and De Creating with Mate  - Safely use and explore materials, tools and techn experimenting with colour, des form and function;	English- writing  Programming A- Moving a robot  The programming A- Moving a robot  Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execut by following precise and unambiguous instructions.  Create and debug simple programs.  Use logical reasoning to predict the behaviour of simple programs.  Recognise common uses of information technology beyond school.  Writing short algorithms and programs for floor robots, and predicting program outcomes  esign —  rials;  a variety of biques,	unambiguous instructions.  Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs  Creating and debugging programs, and using logical reasoning to make predictions.	How does a digital device work?  Computing systems and networks- Connecting computers  Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.  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.  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.  Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks.	Computing systems and networks- The internet  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.  Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.  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 technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.  Recognising the internet as a network of networks including the WWW, and why we should evaluate online content.	How is the information found on the internet?  Computing systems and networks- Sharing information  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.  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.  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 technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.  Identifying and exploring how information is shared between digital systems.	How is data transferred over the internet?  Computing systems and networks- Internet communication  Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.  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.  Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.  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.  Recognising how the WWW can be used to communicate and be searched to find information.				

## Multimedia; How does technology How can music make What is a branch database? What commands can What is a video? What makes a good help us in everyday Science 8 you think and feel? you use? website? ₩ - Use a mouse to rearrange objects % Music % Maths Creating media- Video and pictures on a screen. editing Creating media-Recognise text, images and sound when using ដុំដ 🔷 👵 Use search technologies Computing systems and Webpage creation Creating media- Making Use a camera or sound recorder to collect Data and Information Programming A Use search technologies effectively, appreciate how results are **Networks-Technology** effectively, appreciate how results are photos or sound music Branching databases Repetition in shapes selected and ranked, and be discerning in Begin to use a keyboard around us Use technology safely, respectfully and evaluating digital content. Use technology purposefully to create, Design, write and debug programs that accomplish specific goals, including controlling or simulating physical Develop an interest in ICT by using age ₩ Use technology selected and ranked, and be discerning in ্বিক **Select**, use and combine responsibly: recognise appropriate websites or programs. organise, store, manipulate and evaluating digital content. purposefully to create, organise, store, acceptable/unacceptable retrieve digital content. Select, use and combine a variety of software (including a variety of software (including internet manipulate and retrieve digital content. Communication and Recognise common uses of information technology beyond school. systems; solve problems by decomposing services) on a range of digital devices to Using a computer as a Select, use and combine a variety of Language - Listening. design and create a range of programs, them into smaller parts. tool to explore rhythms software (including internet services) on a internet services) on a range of digital systems and content that accomplish given Use sequence, selection, 众 Attention and range of digital devices to design and devices to design and create a range of Use technology safely and and melodies, before goals, including collecting, analysing, create a range of programs, systems and programs, systems and content that and repetition in programs; evaluating and presenting data and **Understanding**; creating a musical respectfully, keeping personal content that accomplish given goals, accomplish given goals, including Autumn information. work with variables and various information private; identify where to go composition including collecting, analysing, evaluating 다. Use technology safely, collecting, analysing, evaluating and forms of input and output. - Listen attentively and respond to what they hear with relevant for help and support when they have and presenting data and information presenting data and information. 다. Use logical reasoning to concerns about content or contact on the 다. Use technology safely, respectfully and responsibly; recognise questions, comments and actions when internet or other online technologies. explain how some simple algorithms work acceptable/unacceptable behaviour; being read to and during whole class respectfully and responsibly; recognise Recognising technology in identify a range of ways to report concerns and to detect and correct errors in discussions and small group interactions acceptable/unacceptable behaviour: Building and using school and using it about content and contact. Make comments about what they have heard algorithms and programs. identify a range of ways to report conc branching databases to and ask questions to clarify their responsibly. స్టాప్టా 🖍 🌣 Select, use and combine a about content and contact. understanding; group objects using Planning, capturing, and Designing and creating variety of software (including internet ves/no questions. editing video to produce a webpages, giving services) on a range of digital devices to Programming; design and create a range of programs, short film consideration to copyright, systems and content that accomplish given aesthetics, and navigation goals, including collecting, analysing, - Help adults operate equipment around the school. evaluating and presenting data and information. - Use simple software to make things happen Using a text-based - Press buttons on a floor robot and talk about the movements programming language to - Explore options and make choices with toys, explore count-controlled software and websites loops when drawing shapes. How is the information How can I sequence sound? What is input and output? What is physical What variables could I How can we paint Data Collection; using computers? technology (IT) being % Music computing? choose? used for good in our Art and design % Music Science - Collect information as photos or sound files. lives? Programming A- Sequencing Creating media- Audio - Use a simple pictogram or set of photos to Programming Acount and organise information. sounds editing Selection in physical Design, write and debug programs ជំនុំ Use search technologies Creating media- Digital Programming A-Computing systems and computing Variables in games Painting effectively, appreciate how results are Design, write and debug programs that accomplish specific goals, networks\*- Information selected and ranked, and be discerning in 다. Design, write and debug ₩ Use technology controlling or simulating physical systems; technology around us evaluating digital content. solve problems by decomposing them into ស្តីជ 🔦 👶 Select, use and combine a Use technology purposefully to create, organise, store, manipulate and retrieve digital content. including controlling or simulating physical programs that accomplish specific goals, purposefully to smaller parts. systems; solve problems by decomposing create, organise, store, manipulate মুন্দ ভূ Use sequence, selection, including controlling or simulating physical variety of software (including internet them into smaller parts. and retrieve digital content systems; solve problems by decomposing ដុំដ 🔦 🧔 Use sequence, services) on a range of digital devices to them into smaller parts. Choosing appropriate and repetition in programs; work with Recognise common uses of information technology beyond school. design and create a range of programs, Use sequence, selection, variables and various forms of input and tools in a program to selection, and repetition in programs; work systems and content that accomplish given create art, and making goals, including collecting, analysing, with variables and various forms of input and repetition in programs; work with and output. Use logical reasoning to 算な **(** Use technology safely evaluating and presenting data and variables and various forms of input and comparisons with Use logical reasoning to explain how information. explain how some simple algorithms work output. working non-digitally. Spring స్టేహ్లీ **(** Use technology safely, and to detect and correct errors in some simple algorithms work and to detect and respectfully, keeping personal Use logical reasoning to explain how some simple algorithms work and correct errors in algorithms and algorithms and programs. information private; identify where to go respectfully and responsibly; recognise ্রিক 🔦 👵 Select, use and combine for help and support when they have Select, use and combine a acceptable/unacceptable behaviour: and to detect and correct errors in concerns about content or contact on the a variety of software (including internet identify a range of ways to report concerns internet or other online technologies. algorithms and programs. variety of software (including about content and contact. services) on a range of digital devices to Identifying IT and how Select, use and combine a variety of software (including internet internet services) on a range of digital design and create a range of programs, Capturing and editing audio to its responsible use devices to design and create a range of systems and content that accomplish giver produce a podcast, ensuring improves our world in programs, systems and content that goals, including collecting, analysing, services) on a range of digital devices to that copyright is considered. accomplish given goals, including evaluating and presenting data and school and beyond. design and create a range of programs, collecting, analysing, evaluating and systems and content that accomplish give presenting data and information Exploring conditions and goals, including collecting, analysing, Creating sequences in a evaluating and presenting data and selection using a information. block-based programming programmable মুক্ত **(** Use technology safely, language to make music. microcontroller. respectfully and responsibly; recognise acceptable/unacceptable behaviour: identify a range of ways to report cond about content and contact. Exploring variables when designing and coding a



	How do I create and edit text?	How do I create my own quiz?	How can it move through the maze?	How can I make this do it more than once?	What conditions should I choose?	What is a micro:bit? Programming B- Sensing
Summer 2	Creating media- Digital Writing  Use technology purposefully to create, organise, store, manipulate and retrieve digital content.  Use technology safe and respectfully, keeping personal information private; identify where to g for help and support when they have concerns about content or contact on the internet or other online technologies  Using a computer to create and format text, before comparing to writing non-digitally.	programs execute by following precise and unambiguous instructions. Create and debug simple programs.  Use logical reasoning to predict the behaviour of simple programs.	Programming B — Events and actions in Programs  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.  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  Writing algorithms and programs that use a range of events to trigger sequences of actions.	Programming B- Repetition in games  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.  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.  Using a block-based programming language to explore count-controlled and infinite loops when creating a game.	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.  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  Exploring selection in programming to design and code an interactive quiz.  Exploring selection in programming to design and code an interactive quiz.	Designing  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.  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.  Sensing Designing and coding a project that captures inputs from a physical device

