Computing Curriculum linked to National Curriculum Objectives (based on Integra Scheme of Work)

	Continuous Provision					
Reception	Interactive Whiteboard – online games, Activ software for mark making etc. Learn Pads – photography, apps Beebots Remote Control cars					

	Term 1	**Term 2**	**Term 3**	**Term 4**	**Term 5**	**Term 6**
Year 1	**Online Safety Unit:** use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies **SWGfL – Digital Literacy Unit** Hector's World CEOP – Lee and Kim Common Sense Media	**Programming Unit: Controllable Toys** understand that programs execute by following precise and unambiguous instructions create and debug simple programs use logical reasoning to predict the behaviour of simple programs Bee-Bots	**Media Unit: Stories** Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Camera Paint Textease	**Data Unit: Handling Data** Use technology purposefully to create, organise, store, manipulate and retrieve digital content Textease	**Impact of Technology Unit:** Recognise common uses of technology beyond the school **Multimedia Unit: Textease?**	**Programming Unit: Algorithms** understand that programs execute by following precise and unambiguous instructions create and debug simple programs use logical reasoning to predict the behaviour of simple programs **ESPRESSO CODING???**
Year 2	**Online Safety Unit:** use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. **SWGfL – Digital Literacy Unit** Hector's World Duckduckgo Common Sense Media	**Impact of Technology Unit:** Recognise common uses of technology beyond the school Web Browsers Internet **Multimedia Unit: Textease?**	**Programming Unit: Pro-Bots** understand that programs execute by following precise and unambiguous instructions create and debug simple programs use logical reasoning to predict the behaviour of simple programs Pro-Bots and Bee-Bots	**Programming Unit: Algorithms** Use logical reasoning to predict the behaviour of simple programs Understand programs execute by following precise and unambiguous instructions Create and debug simple programs **ESPRESSO CODING??**	**Media Unit: Traditional Tales** Use technology purposefully to create, organise, store, manipulate and retrieve digital content Camera Paint Textease Animation	**Handling Data Unit: Data** Use technology purposefully to create, organise, store, manipulate and retrieve digital content Textease Database Textease Branch
Year 3	**Online Safety Unit:** use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of	**Media Unit: Biographies** 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	**Programming Unit: Scratch** Design, write and debug programs that accomplish specific goals.	**Impact of Technology Unit: Simulations** design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve	**Programming Unit: Pro-Bots Programming** Predict and test an outcome from written instructions Program, evaluate and refine written instructions	**Data Unit: Data Handling** 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

	ways to report concerns about content and contact. **SWGfL – Digital Literacy Unit** Common Sense Media Cyber Café Cyber Smart Crew	content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information Camera – visual and audio Paint Textease Textease Presenter	Solve problems by decomposing them into smaller parts. Use sequence, selection, and repetition in programs. **ESPRESSO CODING??** **Multimedia Unit: Textease Presenter?**	problems by decomposing them into smaller parts use sequence, selection, and repetition in programs; work with variables and various forms of input and output Internet Search Engines	Use repeat to simplify instructions Create a sequence of instructions using a floor turtle To program a simulation or a floor robot using right angle turns Create shapes that have angle that are less than or more than a right angle (link to maths) Debug flawed program Pro-Bots and Logo	content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. Textease Database Textease Branch Data Logger
Year 4	**Online Safety Unit:** use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. **SWGfL – Digital Literacy Unit** Common Sense Media Cyber Café Cyber Smart Crew	**Media Unit: Theatre and Plays** 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 Camera - filming Paint Word Textease Movies	**Impact of Technology Unit: Searching the Internet and File Sharing** use search technologies effectively, appreciate and be discerning in evaluating digital content Internet Search Engines **Multimedia Unit: Textease Publisher/Presenter?**	**Programming Unit: Using a Logo Type Programme** Use logical reasoning to predict the behaviour of simple programs Understand programs execute by following precise and unambiguous instructions Create and debug simple programs Logo	**Programming Unit: Kodu** Design, write and debug programs that accomplish specific goals, Solve problems by decomposing them into smaller parts Use sequence, selection, and repetition in programs. **ESPRESSO CODING??**	**Data Unit: Living Things, Mathematics and Solids, Liquids, Gases** 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. Textease Database Textease Spreadsheet Data Logger
Year 5	**Online Safety Unit:** use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. **SWGfL – Digital Literacy Unit** Be Internet Legends ThinkUKnow	**Media Unit: Tales from Other Cultures** 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,	**Data Unit: Handling Information** 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.	**Impact of Technology Unit:** Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web Internet Search Engines	**Programming Unit: Scratch** 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	**Programming Unit: Flowol** 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

	Cyber Cafe	evaluating and presenting data and information Camera – visual and audio Animation PowerPoint Word	Textease Database Excel Spreadsheet	**Multimedia Unit: PowerPoint** **CC/PD: Make a presentation to teach a skill**	use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs Scratch	use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs Flowol??
Year 6	**Online Safety Unit:** use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. **SWGfL – Digital Literacy Unit** Be Internet Legends ThinkUKnow Cyber Cafe	**Impact of Technology Unit: Websites** 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. Internet Search Engines **Multimedia Unit: PowerPoint?**	**Programming Unit: Flowol** 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 **Flowol**	**Programming Unit: Kodu** Use logical reasoning to predict the behaviour of simple programs Understand programs execute by following precise and unambiguous instructions Create and debug simple programs **ESPRESSO CODING??**	**Data Unit: Health and Weather** 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. Excel Spreadsheet	**Media Unit: Marketing** 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 Camera – visual and audio Publisher PowerPoint Word