

KS1 Computing Overview – Year A

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year A	<p>Let's be Safe ESafety & Can we use computers? Exploring computers for learning and using technology in the classroom</p>	<p>Still Life Digital Art (Dazzle) & Snap, Snap, Snap Digital Media and use of PowerPoint/Movie Maker (Digital Cameras)</p>	<p>Dance Mat (BBC keyboard skills) & Share It Blogging (creating texts for a blog)</p>	<p>The Wonders of the Web (selected websites linked to learning)</p>	<p>Code it https://www.j2e.com/j2code/</p>	<p>I'm an Author Creating and Publishing (Photostory 3)</p>
Target Skills	<p>Understand safety is important. Focus on collaboration and communication</p> <p>Exploring computers and their uses. <i>Using different programmes to support learning</i></p>	<p>Use different aspects of an art package, saving and opening work. Use click and drag for blocks of colour. Manipulate mouse control to formulate art</p> <p>Handle and use digital cameras <i>Take photos and consider their quality. Transfer to computer and manipulate the images into PPT and Movie Maker</i></p>	<p>Utilising motor skills to navigate a keyboard Use different fingers for different keys QWERTY</p> <p>Writing and editing <i>Undo /redo, delete/backspace, capital letters, spacebar, full stops</i></p>	<p>Algorithms <i>Follow step by step directions</i></p> <p>Hand to eye co-ordination. <i>Understand navigation. Independently save, open work and navigate simulation. Click tabs on websites, look for information and click play/stop</i></p>	<p>Algorithms Create step by step instructions to solve simple problems <i>Moving around off and onscreen for a desired purpose (e.g. following and creating instructions)</i></p> <p><i>Use blocks of code (sequence of steps). Utilise repetition and debugging</i></p>	<p>Writing and editing <i>Undo /redo, delete/backspace, capital letters, spacebar, full stops</i></p>

KS1 Computing Overview – Year B

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year B	<p style="text-align: center;">Let's be Safe ESafety & Computers all Around</p> <p>How computers work & computers in the home</p>	<p style="text-align: center;">Treasure Hunt Introduction to Beebots (Beebots)</p>	<p style="text-align: center;">Share It Blogging (creating texts for a blog) & Collect and Organise Data Collection (2Investigate)</p>	<p style="text-align: center;">My Gaming Centre! Computer Game Making (Splodder)</p>	<p style="text-align: center;">I'm Writing a Book Multimedia Publishing Creating an EBook (Photostory 3)</p>	<p style="text-align: center;">Sounds Good Digital Music (2Simple)</p>
Target Skills	<p>Understand safety is important. Focus on collaboration and communication</p> <p>Looking inside a computer and exploring their uses. <i>Looking at how computers are used in the world around us.</i></p>	<p>Algorithms Create step by step instructions to solve simple problems <i>Moving around off and onscreen for a desired purpose (e.g. following and creating instructions)</i></p> <p><i>Use blocks of code (sequence of steps). Utilise repetition and debugging</i></p>	<p>Communicating online safely and respectfully <i>Comment safely and respectfully with others</i></p> <p>Examining data <i>Looking a range of data and how they support school, libraries, supermarkets etc. Create databases to support learning. Understand the internet as a database</i></p>	<p>Algorithms <i>Use blocks of code (sequence of steps). Utilise repetition and debugging</i></p>	<p>Combining skills <i>Record retelling of a story or telling of their own stories. Write edit, save, publish as part of a Photostory and share.</i></p>	<p>Composing and creating audio files <i>Independently create, record and edit audio (select, cut). Manipulate audio (amplify, pitch, tempo).</i></p>

	Objectives Covered	Over the Year – Teacher to Organise
Year 3/4	<ul style="list-style-type: none"> • 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 • 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 	<p>Year A</p> <p>ICT Safety: An Introduction to the Network and Talking about ICT (1 week)</p> <p>Introduction to Podcasting - learning the key skills of podcasting (4 weeks)</p> <p>Blogging Skill Set 1 - using Blogger (or new website) to update a blog with text (5 weeks)</p> <p>Keyboard Skills 1 – BBC Dance Mat (3 weeks)</p> <p>Branching Databases – using ‘Ask Oscar’ to create branching databases to sort and classify information (3 weeks)</p> <p>Web Research Skill Set 1 & 2 - using child-friendly search engines and using a pre-made bookmarking folder, using different search engines, limiting word choice and creating folders for bookmarking (5 weeks)</p> <p>Making Decisions and Control - exploring programmable robots, logic games and making decisions (11 weeks)</p> <p>http://barclayscodeplayground.co.uk/ http://www.sploder.com/ exploring and evaluating pre-made game platforms. Moving onto problem-solving games for others (set 1 & 2)</p> <hr/> <p>Year B</p> <p>ICT Safety: An Introduction to the Network and Talking about ICT (1 week)</p> <p>Making Decisions and Control - exploring programming language, and de-bugging Crystal Rainforest, http://www.sploder.com/ exploring and evaluating pre-made game platforms. Moving onto problem-solving games for others (set 1 & 2) (12 weeks)</p> <p>Spreadsheets – introduction and (8 weeks)</p> <p>Blogging Skill Set 2 & 3 - using Blogger to update a blog with text, pictures and videos (throughout one term)</p> <p>Photo Story – publishing for different audiences (throughout one term)</p>

	Objectives Covered	Over the Year – Teacher to Organise
Year 5/6	<ul style="list-style-type: none"> • 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 • Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content • 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 	<p>Year A ICT Safety: Talking about ICT (1 week) Graphical Modelling - using an object-based graphics package to produce images and visual models (7 weeks)</p> <p>Data Loggers - monitoring environmental conditions using ICT devices (6 weeks) Blogging Skill Set 2 & 3 - using Blogger to update a blog with text, pictures and videos (throughout one term) Photo Story – publishing for different audiences (throughout one term) Creating a class website https://support.google.com/sites/answer/153197?hl=en Use http://code-it.co.uk/dlplanning/sites/googlesitesplanning (12 weeks)</p> <hr/> <p>Year B ICT Safety: Talking about ICT (1 week) Web Research Skill Set 3, 4 & 5 - consolidating knowledge and skills acquired- using a variety of search engines and bookmarking using multiple folders (6 weeks) – this should be linked to all aspects of the curriculum Using Databases – Excel (7 weeks) How does a network work? http://www.bbc.co.uk/education/topics/zs7s4wx (3 weeks)</p> <p>How does the internet work? http://www.bbc.co.uk/education/topics/zs7s4wx (3 weeks)</p> <p>Desktop Publishing – Using Prezi for different audiences (4 weeks)</p> <p>Google SketchUp – creating design in 3D http://code-it.co.uk/dlplanning/google/sketchup (8 weeks)</p>