

Computing Yearly Overview and Key Questions

	<p>Online Safety- This will be taught in every lesson and through our PSHE scheme so that pupils know how to:</p> <p><i>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</i></p>		
EYFS	<p>Computer Discovery- Introduce EYFS pupils to computer with a series of resources and activities. Including: – Labelling computer parts. – Understand and remember what computer parts do.</p> <p>Mouse and Keyboard Skills Can I move the mouse or trackpad and left click to select an object? Can I drag and drop with mouse or trackpad to move objects around the screen? Can I find letters or numbers on a keyboard? Can I begin touch typing with home row keys?</p> <p>Music Creation- Can I understand the advantages and disadvantages of making music on a computer? Can I understand that different instruments make their own sound and that instruments can be divided into groups? Can I create a rhythm using a pattern of beats? Can I create digital sounds using patterns and shapes? Can I create a simple melody using patterns and adjust tempo?</p> <p>Digital Photos and Video Can I take and edit digital photos and videos? Can I bring photos to life using animation and augmented reality?</p> <p>Digital Art and Design Can I use technology to create digital art?</p> <p>Early Programming Can I understand that equipment needs programming? Can I create, follow and programme basic sequences? Can I make things move by programming a sequence?</p>		

<p>Year 1/2 Cycle A</p>	<p>Year 2 Recognise uses of IT</p> <p><i>Can I recognise common uses of information technology beyond school?</i></p> <p>Year 1 Mouse and Keyboard Skills <i>Can I effectively use a keyboard and mouse including using touch pads and tablets?</i></p> <p>Year 2 Digital Art Activities <i>Can I use technology purposefully to create, organise, store, manipulate and retrieve digital content?</i></p> <p>Year 2 Introduction to Animation <i>Can I use technology purposefully to create, organise, store, manipulate and retrieve digital content?</i></p>	<p>Year 2 Introduce Data Handling</p> <p><i>Can I Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</i></p> <p>Year 2 Ebook Creation</p> <p><i>Can I use technology purposefully to create, organise, store, manipulate and retrieve digital content.</i></p> <p>Year 1 Developing Programming</p> <p><i>Can I Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs.</i></p>	<p>Year 1/2 Programming- Scratch Jr</p> <p><i>Can I understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions? Can I create and debug simple programs? Can I use logical reasoning to predict the behaviour of simple programs?</i></p> <p>Year 1/2 Internet Research</p> <p><i>Can I 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?</i></p>
<p>Year 1/2 Cycle B</p>	<p>Year 1 Mouse and Keyboard Skills <i>Can I effectively use a keyboard and mouse including using touch pads and tablets?</i></p> <p>Year 1 Digital Art <i>Can I use technology purposefully to create, organise, store, manipulate and retrieve digital content?</i></p> <p>Year 1 3D Design <i>Can I use technology purposefully to create, organise, store, manipulate and retrieve digital content?</i></p>	<p>Year 1/2 Text and Images</p> <p><i>Can I use technology purposefully to create, organise, store, manipulate and retrieve digital content?</i></p> <p>Year 1/2 Music Creation</p> <p><i>Can I create content that accomplish given goals.</i></p>	<p>Year 1 Introduce Programming</p> <p><i>Can I understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions? Can I create and debug simple programs? Can I use logical reasoning to predict the behaviour of simple programs?</i></p> <p>Year 2 Internet Research</p> <p><i>Can I Use technology safely and respectfully, keeping personal information private; identify where to go for help and</i></p>

			support when they have concerns about content or contact on the internet or other online technologies?
Year 3	Comic Creation <i>Can I 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?</i>	Programming <i>Can I Design, write and debug programs that accomplish specific goal, including simulating physical systems. Use sequence and repetition in programs; work with various forms of input?</i>	Document Editing and Creation <i>Can I 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?</i>
	Digital Art- Embed. <i>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?</i>	Music Creation <i>Can I 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?</i>	3D Design- Embed <i>Can I 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?</i>

<p>Year 4</p>	<p>Animation</p> <p><i>Can I 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?</i></p> <p>Programming (in Scratch)</p> <p><i>Can I design, write and debug programs that accomplish specific goals. Use sequence, selection, and repetition in programs; work with 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></p>	<p>Internet Research</p> <p><i>Can I use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content?</i></p> <p>Data Handling</p> <p><i>Can I collect, analysis, evaluate and present data and information?</i></p>	<p>3D Design</p> <p><i>Can I 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?</i></p> <p>Video Editing- Embed</p> <p><i>Can I 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?</i></p>
<p>Year 5</p>	<p>Programming in Scratch</p> <p><i>Can I design, write and debug programs that accomplish specific goals; 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></p>	<p>App Design</p> <p><i>Can I 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?</i></p> <p>Data Handling</p> <p><i>Can I select, use and combine a variety of software (including internet</i></p>	<p>Computer Networks and the Internet.</p> <p><i>Can I 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></p> <p>Physical Devices</p> <p><i>Can I design, write and debug programs that accomplish specific goals, including</i></p>

		<p><i>services). Collecting, analysing, evaluating and presenting data and information?</i></p>	<p><i>controlling or simulating physical systems. Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</i></p> <p>Music Creation</p> <p><i>Can I 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?</i></p>
Year 6	<p>Programming in Scratch</p> <p><i>Can I design, write and debug programs that accomplish specific goals; solve problems by decomposing them into smaller parts.</i></p> <p><i>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</i></p> <p><i>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and program?.</i></p>	<p>Graphic Design</p> <p><i>Can I design and create digital content to accomplish goals?</i></p> <p>Photograph and Image Editing</p> <p><i>Can I 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?</i></p>	<p>Data Detectives</p> <p><i>Can I select, use and combine a variety of software (including internet services). Collecting, analysing, evaluating and presenting data and information?</i></p>