

<p style="text-align: center;">Swanton Morley VC Primary School</p> <h2 style="text-align: center;">COMPUTING CURRICULUM MAP</h2> <p style="text-align: center;"><i>Computing and the use of information communication technology forms a key part of teaching and learning across the whole curriculum. The use of computers and technology to promote knowledge, understanding and skills is encouraged, and evident, in all topics, subjects and year groups. Children are encouraged to question and to make their own choices as to when, where and how to use technology appropriate to improving their learning.</i></p>			<b>EYFS</b>			<b>Key Stage 1: Year 1</b>		
			AUTUMN	SPRING	SUMMER	AUTUMN	SPRING	SUMMER
			<p style="text-align: center;">Understand the importance of e-safety</p> <p>Keyboard, monitor and mouse: Use a simple program to input letters and numbers, including writing own name</p>	<p style="text-align: center;">E-safety: Where do we find information</p> <p style="text-align: center;">Create step-by-step instructions to cause something to happen (BeeBots)</p> <p style="text-align: center;">Printing</p> <p style="text-align: center;">Begin to combine text and images on a common theme</p>	<p style="text-align: center;">E-safety: Understand how technology helps us</p> <p style="text-align: center;">Making things happen (using devices to help us)</p> <p style="text-align: center;">Identifying uses of technology at home and school</p>	<p style="text-align: center;">Recognise common uses of IT beyond school</p> <p style="text-align: center;">Understand the importance of e-safety</p> <p style="text-align: center;">Begin to use the internet safely to find information using a search engine</p>	<p style="text-align: center;">Use graphics and drawing programs to create, move and store images</p> <p style="text-align: center;">Use logical reasoning to predict, or change the outcome of a simple program (BeeBots)</p>	<p style="text-align: center;">Create and manipulate text and pictures, including saving and printing (basic word processing)</p> <p style="text-align: center;">Use technology to sort and retrieve data (simple spreadsheets and branching databases)</p>
<b>Key Stage 1: Year 2</b>			<b>Key Stage 2: Year 3</b>			<b>Key Stage 2: Year 4</b>		
AUTUMN	SPRING	SUMMER	AUTUMN	SPRING	SUMMER	AUTUMN	SPRING	SUMMER
<p style="text-align: center;">Recognise common uses of IT beyond school</p> <p style="text-align: center;">Understand the importance of e-safety</p> <p>Use the internet safely to search for specific information, refining searches and using bookmarks</p>	<p style="text-align: center;">Use and manipulate images and graphics on screen to create models, plans and diagrams</p> <p>Use technology to create, organise, store and retrieve data (simple spreadsheets and branching databases)</p>	<p style="text-align: center;">Input, review, edit, save and print text and images for a given purpose (word processing)</p> <p style="text-align: center;">Understand, create and explain a simple algorithm</p> <p style="text-align: center;">Create and use simple algorithms to programme a device (Logo/BeeBots)</p>	<p style="text-align: center;">Use technology safely and responsibly and be aware of good e-safety practices</p> <p>Understand and explain how computer networks operate</p> <p>Use search technologies confidently, safely and effectively</p>	<p style="text-align: center;">Use Email safely and appropriately to communicate information</p> <p>Use spreadsheets and databases to collect, model, analyse, evaluate and present data</p> <p style="text-align: center;">Create and edit simple algorithms to suit a specific purpose</p>	<p style="text-align: center;">Use word processing software to manipulate text, graphics and images to publish information for a given purpose</p> <p style="text-align: center;">Present information clearly using digital technology</p>	<p style="text-align: center;">Use technology safely and responsibly and be aware of good e-safety practices</p> <p>Use Email safely for a given purpose to communicate and share documents</p> <p>Refine internet search skills using techniques to narrow results linked to a specific purpose</p>	<p style="text-align: center;">Use word processing software to combine images, graphics, text and tables to form multi-page documents</p> <p style="text-align: center;">Select and use a variety of software creating content to accomplish a given goal</p> <p>Present information using a range of software and media</p>	<p style="text-align: center;">Create and edit algorithms to suit given purposes and explain how they work (using BeeBots)</p> <p>Manipulate and combine images, audio and video to create a multimedia digital presentation</p>
<b>Key Stage 2: Year 5</b>			<b>Key Stage 2: Year 6</b>			<b>Visits, Trips and 'Special' Days/Events</b>		
AUTUMN	SPRING	SUMMER	AUTUMN	SPRING	SUMMER	AUTUMN	SPRING	SUMMER
<p>Use technology safely and responsibly and be aware of good e-safety practices</p> <p>Develop use of Email and blogs to safely communicate information to a wider audience</p> <p>Use spreadsheets to record, analyse and present data drawing conclusions</p>	<p>Use software to control the function of electronic devices, working with differing variables</p> <p>Develop word processing skills, building on skills learnt in year four</p>	<p style="text-align: center;">Use digital and multimedia technologies to evaluate and present information to a given audience</p> <p>Use logical reasoning to explain algorithms, including detecting and repairing errors</p> <p>Begin to use simple web authoring tools to produce a web page, including use of internal and external links</p>	<p>Use technology safely and responsibly and be aware of good e-safety practices</p> <p>Build on use of Email, blogs and web pages to safely communicate information</p> <p>Use spreadsheets to collect and analyse data, including using formulae to perform calculations</p>	<p>Develop word processing skills to encompass desk top publishing and web authoring, producing documents that suit a variety of purposes</p> <p>Begin to use HTML code to develop web pages that can be combined to produce a simple multi-page web site</p>	<p>Use monitoring software to perform data-logging operations</p> <p>Design, write and debug programs used to control physical systems</p> <p>Capture, process and edit video and audio to make short presentations for a given audience</p>			
						<p><b>The national curriculum for computing aims to ensure that all pupils can:</b></p> <ul style="list-style-type: none"> <li>Understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation</li> <li>Analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve problems</li> <li>Evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems</li> <li>Use information and communication technology safely, responsibly, competently, confidently and creatively</li> </ul>		