


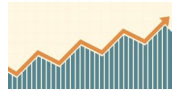



# Computing at St Andrew's



<p>Our school aims to develop children into effective computer users, equipped with the skills to become active participants in the digital world.</p> <p>The school feels it is important to balance the benefits offered by technology with a critical awareness of their own and other's online behaviour, developing effective strategies for staying safe and making a positive contribution online.</p>	<div style="text-align: center;">  <h2>BIG IDEAS</h2> </div> <p><u>Algorithms and programming</u> - Understanding and explaining algorithms; designing, creating and debugging; simple programming; predicting outcomes; understanding variables, inputs and outputs.</p> <p><u>Information Technology</u> - Create, store, retrieve and improve digital content; using websites; cameras and sound equipment; use different software; collecting and presenting data; produce and upload podcasts; analyse and evaluate information; edit a film.</p> <p><u>Digital Literacy</u> - Using technology safely; keeping personal information private; being respectful and responsible; understanding school and home rules for the internet; knowing where to go for help; understanding computer networks; understanding truth online; understand risks and risk management.</p> <p><u>Knowledge and Understanding</u> - communication methods; search engines; emails; understanding of pop-ups; bookmarking; understanding advertising; use passwords; using strategies to verify information; understand copyright; cyberbullying; how to report something online; avatars; understanding plagiarism; understanding the pro's and con's of the internet; understanding scams and phishing; security settings; publishing and removal of content; malicious messages.</p>	<div style="text-align: center;"> <h2>CONTENT &amp; SEQUENCING</h2> </div> <p>Our school follows the scheme of work created by Purple Mash. We use our teacher knowledge to supplement this scheme to ensure the children have a broad range of software's and technologies in which they are able to use as they move through out education and into the working world. A separate progression map has been agreed by staff and created to ensure the children progress through the software each year, building upon the prior knowledge taught.</p> <p><u>EYFS</u> - Term 2 onwards - using a mouse and keyboard to navigate a chosen website for children, beebots for coding, E-Safety, navigating Purple Mash. The key focus in EYFS is on staying safe when using technology.</p> <p><u>Year 1 and 2</u> - logging on; typing skills; coding (Beebots/espresso/Purple Mash); using search engines to find websites; word documents; emailing as a class; e-safety, making topic book covers; saving and manipulating digital content; historical research.</p> <p><u>Year 3 and 4</u> - typing skills, copying and pasting; rainforest databases; SMART rules; making topic book covers; spreadsheets; coding (Espresso, Scratch); using the internet; e-safety, researching.</p> <p><u>Year 5 and 6</u> - making topic book covers; PowerPoint presentations on the Victorians (animations, sounds, links); Brushes App (Victorian art); excel spreadsheets; coding; internet research, e-safety.</p> <p>All classes have access to iPads where the children can use relevant apps and websites to support their learning.</p> <p>Coding: Beebots, Scratch, Espresso, Purple Mash and Coding.org.</p>	
<div style="text-align: center;">  <h2>LINKS WITH ENGLISH &amp; MATHS</h2> </div> <ul style="list-style-type: none"> <li>• Spreadsheets (excel)</li> <li>• Coding</li> <li>• Data</li> <li>• Writing—typed up</li> <li>• Mathematics, TTRockstars, Spelling Shed, SPaG.com, Star Maths, Purple Mash</li> <li>• Microsoft—Excel, PPT</li> <li>• Science—Data</li> </ul>	<div style="text-align: center;">  <h2>RETRIEVAL PRACTICE</h2> </div> <ul style="list-style-type: none"> <li>• Can you still...? Activities systematically included in teaching sequences.</li> <li>• Cross year group links made explicitly to refer to prior learning.</li> <li>• Important computing concepts and vocabulary used e.g debugging, algorithms.</li> <li>• Homework set to consolidate learning. Homework can also be Computing based e.g. research projects.</li> <li>• Purple Mash is accessible at home. Homework can be set using this platform.</li> </ul>	<div style="text-align: center;">  <h2>PROGRESS</h2> </div> <ul style="list-style-type: none"> <li>• Units of work are carefully sequenced so prior knowledge and concepts are built upon from previous year groups and units.</li> <li>• Our cross curriculum is the progression model.</li> <li>• End of unit written tasks/quizzes/ knowledge organisers.</li> <li>• E-safety is consolidated throughout all Computing lessons.</li> </ul>	<div style="text-align: center;">  <h2>SUPPORT</h2> </div> <ul style="list-style-type: none"> <li>• Online safety newsletter sent out to parents monthly.</li> <li>• The school takes part in Safer Internet Day annually.</li> <li>• Online safety speakers come into school to talk to children and adults.</li> <li>• Coding Club</li> <li>• Use of computers for homework club.</li> <li>• Microsoft Teams used to link home and school.</li> </ul>