



**MACAULAY CE SCHOOL  
COMPUTING OVERVIEW**

	<b>AUTUMN</b>	<b>SPRING</b>	<b>SUMMER</b>
<b>Year 1</b>	<ul style="list-style-type: none"> <li>• <b>Basic skills (Information Technology):</b> typing, logging in and out, saving and using folders, basic Microsoft word skills.</li> <li>• <b>Online Safety (Digital Literacy):</b> the internet as a way to communicate and find information, how to respond to anything said that is upsetting, importance of passwords, what should or should not be shared, online safe friendships.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Computer Science:</b> sequencing instructions, approaching problems logically, create a short program using software such as Scratch Junior and Beebots.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Multimedia &amp; Communication (Information Technology):</b> using drawing software, recording a short film. Choosing technology to communicate and present ideas.</li> <li>• <b>Using Information (Digital Literacy):</b> using different devices to access information, media literacy.</li> <li>• <b>IT in the World (Information Technology):</b> technology at home and in the world.</li> </ul>
<b>Year 2</b>	<ul style="list-style-type: none"> <li>• <b>Basic Skills (Information Technology):</b> build keyboard fluency, creating folders, saving, use Microsoft PowerPoint to create and edit a presentation.</li> <li>• <b>Online Safety (Digital Literacy):</b> communicating respectfully, permission for adding photos, password protection, the question of truth on line, only friends in real life as friends on line, information to share or keep safe.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Computer Science:</b> follow and planning sequential instructions, understanding programs and algorithms, precision of steps, to explore debugging using new software such as JiT5.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Multimedia &amp; Communication (Information Technology):</b> recording and deleting audio. Making an animated sequence, safe respectful communication. Choosing technology to communicate and present ideas for a specific audience.</li> <li>• <b>Using Information (Digital Literacy):</b> using a search engine, navigating websites, and starting to evaluate usefulness and truthfulness of websites.</li> <li>• <b>IT in the World (Information Technology) :</b> technology at home, in and outside school.</li> </ul>
<b>Year 3</b>	<ul style="list-style-type: none"> <li>• <b>Basic Skills (Information Technology):</b> 'Print Screen', creating folders, saving and</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Computer Science:</b> understanding what algorithms and programing means, predicting outcomes, creating shapes using</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Multimedia &amp; Communication (Information Technology):</b> photography including effects, creating video, including digital audio.</li> </ul>

	<p>retrieving, editing and resaving, create a branching PowerPoint.</p> <ul style="list-style-type: none"> <li>• <b>Online Safety (Digital Literacy):</b> to report upsetting content, identify online bullying, understanding the permanency of publishing online, asking permissions, strong passwords, avatar choice, what to do if contacted by someone unknown.</li> </ul>	<p>algorithms and using new programming tools such as Scratch, and text based programming through Turtle Logo.</p>	<p>Evaluating the impact and modifying created work appropriately.</p> <ul style="list-style-type: none"> <li>• <b>Using Information (Digital Literacy):</b> accessing and evaluating web pages, assessing truth and relevance.</li> <li>• <b>IT in the World (Information Technology):</b> sending and receiving data.</li> </ul>
<b>Year 4</b>	<ul style="list-style-type: none"> <li>• <b>Basic Skills (Information Technology):</b> familiarity with folders, further word skills and tools, start to independently solve some technical problems.</li> <li>• <b>Online Safety (Digital Literacy):</b> recognising content that makes us uncomfortable or upset (online bullying) including extremist ideologies, and what to do about this, strong passwords and when to change these, appropriate information on a profile, risks around an online footprint.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Computer Science:</b> refining algorithms, writing short programs, using Scratch to create a quiz, and using advanced Turtle Logo skills.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Multimedia &amp; Communication (Information Technology):</b> using software for art, design, and animation, introducing online publication such as blogs.</li> <li>• <b>Using Information (Digital Literacy):</b> ownership and permission, evaluating search engines and ranking.</li> <li>• <b>IT in the World (Information Technology):</b> how IT has changed people's lives</li> </ul>
<b>Year 5</b>	<ul style="list-style-type: none"> <li>• <b>Basic Skills (Information Technology):</b> sustained keyboard fluency and using non alphanumeric keys, using Microsoft publisher, explaining folder paths, fix some problems independently.</li> <li>• <b>Online Safety (Digital Literacy):</b> evaluating website safety including spam, age appropriate choices of materials, how to prevent and respond to bullying, privacy and protection when sharing information, terms and conditions, abiding by the acceptable use policy.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Computer Science:</b> logical approaches, using diagrams and flow charts, write programs with 'loop' statements, to identify and debug errors, creating a game on Scratch. Programming micro:bit robots.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Multimedia &amp; Communication (Information Technology):</b> composition of photography, recording and editing audio files, email etiquette.</li> <li>• <b>Using Information (Digital Literacy):</b> evaluating truthfulness and relevance of websites, main results and sponsored results from a search, bias and trustworthy sources.</li> <li>• <b>IT in the World (Information Technology):</b> to consider future digital technology</li> </ul>

<p><b>Year 6</b></p>	<ul style="list-style-type: none"> <li>• <b>Basic Skills (Information Technology) :</b> managing some settings independently, using Microsoft excel and different skills, switch between different spreadsheets.</li> <li>• <b>Online Safety (Digital Literacy):</b> Evaluating website safety, risks of communicating with strangers, reliability, terms and conditions, responsibilities as digital citizens, how to identify, prevent and respond to cyberbullying and discrimination, abiding by the acceptable use policy.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Computer Science:</b> using diagrams to help design and explain algorithms and programs, identify and debug errors, explain and summarise a program written by the children, creating a game on new programming apps such as Kodu and compare programming software, learning about text based programming such as Raspberry Pi.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Multimedia &amp; Communication (Information Technology):</b> film making, managing emails/blogs, evaluating technological resources</li> <li>• <b>Using Information (Digital Literacy):</b> search engines and pop up ads, search functions and filters, trustworthiness, pop ups and advertisements.</li> <li>• <b>IT in the World (Information Technology):</b> speed of data sends, opportunities for collaboration.</li> </ul>
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