



**St Matthew's RC High School**  
**Key Stage 3 Curriculum Plan 2016/17**  
**Subject: Computer Science/ICT**

Yr	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer
<b>7</b>	<p><b>Digital Literacy</b></p> <p><i>(The fundamentals of being digitally literate)</i></p> <p><i>Having a good file and folder structure</i></p> <p><i>Students will be taught computer skills which allows them to produce letters, presentations, email, newsletter, business cards and poster/flyer</i></p>	<p><b>Intro to Computer Science</b></p> <p><i>(The fundamentals of computer science, programming and theory)</i></p> <p><i>Define What is a computer – including its basic components Hardware, software,</i></p> <p><i>Identify Different types of computers/systems (e.g. mobiles, TV's, tablets, laptops) –</i></p> <p><i>Categorising as general purpose and embedded</i></p> <p><i>Explain what a network is including the internet</i></p>	<p><b>E-Safety</b></p> <p><i>Understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise inappropriate content, contact and conduct and know how to report concerns</i></p>	<p><b>Scratch</b></p> <p><i>(Programming of instructions, sequencing of events and algorithms within Scratch)</i></p>	<p><b>Software</b></p> <p>Word, creating different documents and using various formatting techniques.</p> <p>PowerPoint, Pupils will deliver a presentation to their Peers.</p>
<b>8</b>	<p><b>Further Computer Science</b></p> <p><i>(Computer science fundamentals theory recap, plus a deeper understanding)</i></p>	<p><b>Graphics</b></p> <p>Students will create a digital product using specialist graphic editing software. They will combine, text and</p>	<p><b>How the Web works</b></p> <p>Looking at the Internet and the</p>	<p><b>Web Authoring</b></p> <p>Students will make a website using Serif Web.</p>	<p><b>Software</b></p> <p>Excel, making spreadsheets, modelling data.</p> <p>PowerPoint, Pupils will deliver a presentation to their Peers.</p>

	<p><i>Explain Data Representation as binary</i>  <i>Represent text as binary</i>  <i>e.g. writing your name as binary, decode secret message</i></p> <p><i>Network topologies – Ring, star and bus</i>  <i>Data Storage devices and their uses</i>  <i>Health &amp; safety when using Computers</i></p>	<p>images to produce the finished article.</p>	<p>WWW and their differences.</p> <p>Looking at Web browsers and Search Engines.</p> <p>Domains, IP's and DNS</p>		
9	<p><b>Advance Computer Science</b></p> <p><i>(Computer science fundamentals theory recap, plus a deeper understanding)</i></p> <p><i>Explain Data Representation as binary and converting binary into denary.</i></p> <p><i>Understanding the hardware which makes up a computer.</i></p>		<p><b>Python</b></p> <p><i>(Python skill building, this is part of the controlled assessment in Y10 and Y11)</i></p>		<p><b>Making an App</b>  <i>(App creation)</i></p> <p><i>Using E-Safety to set the context for the task.</i></p>