



<b>Computing</b>						
	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 3</b>	<b>Spring 4</b>	<b>Summer 5</b>	<b>Summer 6</b>
<b>Year 7</b>	<p><b>E-Safety &amp; Presentations</b> Introduction to the network &amp; school policies</p> <p>Research-safety issues &amp; keywords and produce a poster using DTP software</p> <p>Design, produce, evaluate &amp; refine a Presentation</p>	<p><b>Image Creation and Editing</b> Introduction to bitmap and vector image encoding</p> <p>Using bitmap and vector tools to create a range of graphics for a game</p>	<p><b>Computer Programming</b> Develop an understanding of basic constructs in programming</p> <p>Program a simple game using MIT Scratch V2 and their own graphics</p>	<p><b>Programming and Spreadsheets</b> Understand the purpose, structure and use of Spreadsheets</p> <p>Learn how to use basic formatting, formulae and functions in Excel Create and format charts &amp; graphs appropriately</p>	<p><b>Web development using HTML/CSS</b> Create a simple webpage containing text, images and hyperlinks using HTML code and inline CSS styling</p>	<p><b>Web development using HTML/CSS</b> Research, design and create a website containing text, images and hyperlinks using HTML code and inline CSS styling</p>
	<p><b>Assessment</b> A mixture of onscreen tests and assessed project based tasks will be used throughout the year, including numeracy and literacy where appropriate.</p>					
<b>Year 8</b>	<p><b>Business Launch and Promotion</b> Research and develop a concept for a new local business</p> <p>Produce a range of promotional materials using DTP and Image Editing software</p>	<p><b>Website Design with HTML and CSS</b> Introduction to professional web development tools and more advanced CSS styling</p> <p>Develop a website for their new local business</p>	<p><b>Computer Programming</b> Introduction to Programming concepts</p> <p>Program the BBC MicroBit using sequence, selection and iteration</p>	<p><b>Computer Programming</b> Introduction to Microsoft Small Basic</p> <p>Develop a range of coded solutions using variables, sequence, selection and iteration</p>	<p><b>Spreadsheet Applications</b> Expand their understanding of Spreadsheets: <i>Use of Sum, Average, Max, Min, Cell Ranges and Absolute Cell referencing</i></p> <p>Research and model a given topic</p>	<p><b>Research and Movie Making</b> Research, design, create, evaluate and refine a Movie for a given topic/audience</p> <p>Develop image and movie editing skills</p>
	<p><b>Assessment</b> A mixture of onscreen tests and assessed project based tasks will be used throughout the year, including numeracy and literacy where appropriate.</p>					

# Key Stage Three Curriculum - Kesteven and Sleaford High School Selective Academy



<h2>Year 9</h2>	<p><b>Data Encoding and Encryption</b> The Binary number system</p> <p>The Hexadecimal number system</p> <p>Encoding of Text, Images and Sounds</p> <p>Data encryption &amp; decryption</p>	<p><b>Computer Systems &amp; Networking</b> The internal components of a desktop PC</p> <p>Input, output and storage devices</p> <p>The threats to an IT system and how to minimise them</p>	<p><b>Developing Algorithms and Computer Programming</b> Design algorithms to solve given problems using Input, Process, Output</p> <p>Develop coded solutions using Python Use Integer, Float, String and Boolean variables appropriately</p> <p>Casting and string manipulation Using Sequence, Selection and Iteration Reading &amp; writing to files</p>	<p><b>Core Skills &amp; Working Safely</b> Understand some of the health implications of technology use and how to minimise them</p> <p>Touch typing and keyboard skills</p> <p>Develop core Office skills to support future studies</p>	<p><b>Cybercrime, Legislation and Image editing</b> Understand current and emerging online threats and how to minimise them</p> <p>Understand the role of Data Protection, Computer Misuse and Copyright Legislation</p> <p>Understand the use and dangers of image manipulation in media and be able to apply common Photoshop touch-up techniques and filters to digital images</p>
	<p><b>Assessment</b> A mixture of onscreen tests and assessed project based tasks will be used throughout the year, including numeracy and literacy where appropriate.</p>				