

## KS4 ICT Curriculum Overview 2017

	Year 10 ICT	Year 11 ICT
<b>Term 1</b>	This course is yet to be decided. We are awaiting the next draft of the DfE progress 8	<p>OCR Cambridge Nationals ICT</p> <p style="text-align: center;"><b>R003</b></p> <p>Introduction to Spreadsheet task. Practice skills needed for the board set task.</p> <p style="text-align: center;"><b>R002</b></p> <p>Continue with Understanding Computer Systems</p> <p>This is the mandatory unit and a foundation for other units that will be studied. This unit will give a solid base to develop knowledge and understanding of computer systems</p>
<b>Term 2</b>		<p>OCR Cambridge Nationals ICT</p> <p style="text-align: center;"><b>R003</b></p> <p style="text-align: center;">Handling data using Spreadsheets</p>
<b>Term 3</b>		<p>This is the final optional unit, pupils will be expected to follow the OCR board set task to create a working system that fulfils the criteria.</p>
<b>Term 4</b>		<p>They can solve the task in any way they see fit, this can be guided by but not taught by the Teacher.</p>
<b>Term 5</b>		<p>OCR Cambridge Nationals ICT</p> <p style="text-align: center;"><b>R001</b></p> <p>Past papers and preparation for the scenarios in the exam.</p>
<b>Term 6</b>		<b>STUDY LEAVE</b>

## KS3 ICT Curriculum Overview 2017

	<b>Year 7</b>	<b>Year 8</b>	<b>Year 9</b>
<b>Term 1</b>	<p style="text-align: center;"><b>Organisation</b></p> <p>This unit gives pupils an introduction to using the school network and includes aspects of folders and files, and graphics, e-safety is included within the unit.</p>	<p style="text-align: center;"><b>Organising for the Web</b></p> <p>Students consider working safely with cloud computing services before collaboratively planning their tour itinerary using an online platform.</p>	<p style="text-align: center;"><b>Organising Business</b></p> <p>More challenging graphic skills are developed this year using colour schemes, rubber stamp tools and lasso tools to produce a banner for their new business.</p>
<b>Term 2</b>	<p style="text-align: center;"><b>Communication</b></p> <p>They will develop basic and advanced communication techniques through independent development of a professional presentation suitable for a specific audience and purpose.</p>	<p style="text-align: center;"><b>Digital media</b></p> <p>This unit looks into the world of digital media including exciting opportunities to design and produce high quality graphics and professional quality audio clips.</p>	<p style="text-align: center;"><b>Python Profits</b></p> <p>In this unit, students are introduced to the concepts of algorithms (pseudocode and flowcharts), variables, simple mathematics, sequencing, selection and iteration.</p>
<b>Term 3</b>	<p style="text-align: center;"><b>Development</b></p> <p>This unit leads pupils through the development of a standalone maze game including keyboard sprite control, following algorithms, flowcharts, coordinates and documentation.</p>	<p style="text-align: center;"><b>Visualisation</b></p> <p>In this unit they move into the modern, trendy world of the 'infographic' by analysing existing graphics and creating their own for a concert</p>	<p style="text-align: center;"><b>Website Coding</b></p> <p>In this unit, continued development of a complete, functioning static website using inline and external style sheets, hyperlinks, images and colour schemes</p>
<b>Term 4</b>	<p style="text-align: center;"><b>Modelling</b></p> <p>The unit develops an understanding of the basic concepts of modelling by including cell referencing, spreadsheet basics, and the comparison of spreadsheets with manual models.</p>	<p style="text-align: center;"><b>Web programming</b></p> <p>In this unit, students will learn how to recognise and combine elements of simple webpages into a fully functional, high quality web pages</p>	<p style="text-align: center;"><b>Advanced Data</b></p> <p>Data encoding is the next focus - students learn about binary representation including the necessary skills required to encode and decode information and perform simple binary arithmetic.</p>
<b>Term 5</b>	<p style="text-align: center;"><b>Exploring Data</b></p> <p>Students perform real data collection and enter details into the live database.</p>	<p style="text-align: center;"><b>Networks and the Web</b></p> <p>Students learn about networks and use a model to work out the cost of networking a real computer system and produce a network diagram in a desktop publishing package to communicate their findings.</p>	<p style="text-align: center;"><b>Smartphone Apps</b></p> <p>Students investigate online security risks, data protection and develop an advanced user interface similar to one on modern operating systems. Students will work with Small Basic.</p>
<b>Term 6</b>	<p style="text-align: center;"><b>Micro:bits</b></p> <p>Using Micro:Bits to learn about coding; abstraction and various languages</p>	<p style="text-align: center;"><b>Python</b></p> <p>Using Code Academy to introduce pupils to Python.</p>	<p style="text-align: center;"><b>Theory</b></p> <p>Preparation for GCSE / Cambridge Nationals course.</p>