

<b>AUTUMN TERM 1: SEPT - OCT</b>	<b>AUTUMN TERM 2: OCT - DEC</b>	<b>SPRING TERM 1: JAN - FEB</b>
<p align="center"><b>RO50/RO60</b> <b>Design tools and HCI</b></p>	<p align="center"><b>RO50/RO60</b> <b>Data, testing, Cyber-security, and legislation</b></p>	<p align="center"><b>RO50</b> <b>Digital communications and IoE.</b></p>
<p><b>AO: to review design tools and HCI and consider usability.</b></p> <p>Pupils will review all aspects of RO50, TA1 and 2 to ensure that pupils are clear about how to make decisions and plan solutions.</p> <p>Topics include:</p> <p>TA1 – Design Tools. TA2 – Human computer interface in everyday life.</p> <p><b>AO: to use formulas and functions in a spreadsheet and consider how to integrate software for a purpose.</b></p> <p>Pupils will explore modelling data using spreadsheet software.</p> <p>Topics:</p> <ul style="list-style-type: none"> <li>• Use the autofill tool to replicate cell data.</li> <li>• Analyse data.</li> <li>• Create appropriate charts in a spreadsheet.</li> <li>• Use the functions SUMIF, COUNTIF, and IF in a spreadsheet.</li> <li>• Use the functions VLOOKUP, HLOOKUP and IFERROR in a spreadsheet.</li> <li>• Use the functions =NOW, =TODAY and =EDATE in a spreadsheet.</li> <li>• Use conditional formatting in a spreadsheet.</li> <li>• Use absolute referencing in a spreadsheet.</li> <li>• Create a Macro in a spreadsheet.</li> <li>• Integrate software with Google sheets.</li> </ul>	<p><b>AO: to review design tools, HCI, Data and testing.</b></p> <p>Pupils will review aspects of RO50, TA3 and 4 to ensure that pupils are clear about how to make decisions about security and link their work to legislation.</p> <p>Topics include:</p> <p>TA3 – Data and testing. TA4 - Cyber-security and legislation.</p> <p><b>OCR</b></p>	<p><b>AO: to explore digital communications and IoE.</b></p> <p>Pupils will review all aspects of RO50, TA5 and 6 to ensure that pupils are clear about different types of communication methods and the IoE.</p> <p>Topics include:</p> <p>TA5 – Digital communications. TA6 – The Internet of Everything.</p> <p><b>OCR</b></p>

<ul style="list-style-type: none"> <li>• What-if analysis</li> <li>• Pivot tables</li> <li>• Importing data into a spreadsheet.</li> </ul> <p><b>OCR</b></p>		
<b>SPRING TERM 2: FEB - MAR</b>	<b>SUMMER TERM 1: APR - MAY</b>	<b>SUMMER TERM 2: JUN - JUL</b>
<p style="text-align: center;"><b>RO60</b></p> <p style="text-align: center;"><b>TA1: Planning and designing the spreadsheet solution.</b></p> <p style="text-align: center;"><b>Human-Computer Interface (HCI) design conventions and principles using a spreadsheet solution.</b></p>	<p style="text-align: center;"><b>RO60</b></p> <p style="text-align: center;"><b>Practice Assignment</b></p>	<p style="text-align: center;"><b>R070</b></p> <p style="text-align: center;"><b>Augmented Reality</b></p>
<p><b>AO: to identify the correct software for a given purpose and test its usability.</b></p> <p>Pupils will learn to look at the functionality that could be incorporated into a spreadsheet solution. Pupils will consider calculations that need to be incorporated into a spreadsheet solution. Pupils will also consider types of output that could be used to present information for an organisation in a spreadsheet solution.</p> <p>Topics include:</p> <p>what data needs to be manipulated to meet the client’s requirements  the variety of outputs that may be required  the use of charts, lists, invoices, reports and worksheets as output in an organisation  chart formatting and labelling  when it is appropriate to use various types of output.</p> <p style="text-align: center;"><b>TA2: Creating the spreadsheet solution</b>  <b>TA3: Testing the spreadsheet solution</b></p>	<p><b>AO: to test and evaluate and suggests ways to further improve a spreadsheet solution.</b></p> <p>Practice OCR assignment contains three to five practical tasks which pupils will attempt in preparation for Year 11.</p> <p>Topics include:</p> <p>Planning and designing the spreadsheet solution  Creating the spreadsheet solution  Testing the spreadsheet solution  Evaluating the spreadsheet solution.</p>	<p><b>AO: to understand the purpose of Augmented Reality</b></p> <p>Pupils will examine how AR technology is used and how to make design decisions for a purpose.</p> <p>Topics:</p> <ul style="list-style-type: none"> <li>• Describe the purpose for an AR app.</li> <li>• Describe the user requirements of the AR.</li> <li>• Identify the target audience.</li> <li>• Identify the content required.</li> <li>• Identify and determine appropriate quality of assets for an AR app.</li> <li>• explain the term trigger.</li> <li>• explain the different forms of triggers.</li> <li>• select appropriate types of triggers for a defined AR app context.</li> <li>• explain the terms layers/user interaction.</li> <li>• select appropriate forms of layers/user.</li> <li>• summarise the key components of different design tools used for AR.</li> </ul>

**TA4: Evaluating the spreadsheet solution**

**OCR**

**OCR**