

## Year 10 - ICT - CNAT in Information Systems

Students use the skills and knowledge they have learnt in Yr 7-9 and build upon them to help understand how ICT is used in society. Brain In Gears are used to help students recall previous learning along with tasks which are more practical based. Students learn about the theoretical and practical side of ICT to help prepare them for the two assessments as well as skills for the real world. Most tasks can be completed through Google Classroom when subject specific software isn't required.

Year 10 Curriculum	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
<b>Topic(s)</b>	<p><b>Module 1 - PLC</b></p> <ul style="list-style-type: none"> <li>Phases of the Project Life Cycle.</li> <li>Planning tools.</li> </ul> <p><b>Module 2 - Threats &amp; Legislations</b></p> <ul style="list-style-type: none"> <li>Threats when using data.</li> <li>Vulnerabilities which can be exploited in a cyber security attack.</li> </ul>	<p><b>Module 2 - Threats &amp; Legislations</b></p> <ul style="list-style-type: none"> <li>Impacts and consequences of a cyber security attack.</li> <li>Prevention measure.</li> <li>Current relevant IT legislation. Implications and applications.</li> </ul> <p><b>Database Skills</b></p> <ul style="list-style-type: none"> <li>Setting up a database.</li> <li>Searching a database.</li> <li>Analysing data using a database.</li> </ul>	<p><b>Module 3 - PLC Phases</b></p> <ul style="list-style-type: none"> <li>Inputs and outputs of phases of the PLC.</li> <li>Initial project considerations.</li> </ul> <p><b>Module 4 - Data</b></p> <ul style="list-style-type: none"> <li>Data and information.</li> <li>How data is collected and stored.</li> <li>BIG data.</li> </ul>	<p><b>Module 5 - Software &amp; Information</b></p> <ul style="list-style-type: none"> <li>Applications software selection and justification.</li> <li>Presentation methods and target audience.</li> <li>How information is shared.</li> </ul> <p><b>Module 6 - Data Security</b></p> <ul style="list-style-type: none"> <li>Project implications from legislation.</li> <li>How to ensure data is secure.</li> </ul>	<p><b>Module 7 - Data Reliability</b></p> <ul style="list-style-type: none"> <li>Use of data application and interaction of data stores.</li> <li>The effects of data being unreliable.</li> </ul> <p><b>Module 8 - Exam Revision</b></p> <ul style="list-style-type: none"> <li>Practice exam questions.</li> <li>Exam technique.</li> <li>Mock exam.</li> </ul> <p><b>R012 - Exam Paper</b></p>	<p><b>Applications Software Skills</b></p> <ul style="list-style-type: none"> <li>Presentation skills.</li> <li>Word Processing skills.</li> <li>DTP skills.</li> </ul>
<b>Assessment</b>	<p>Project Life Cycle Presentation - WCF</p> <p>Practice Exam Questions</p>	<p>Legislations Review - WCF</p> <p>Practical Database Assessment</p>	<p>Practice Exam Questions</p> <p>Modules 1-4 Test</p>	<p>Practice Exam Questions</p>	<p>Project Life Cycle Questions - WCF</p> <p>Practice Exam Questions</p> <p>Mock Exam</p> <p>Externally marked exam paper (50% of grade)</p>	<p>Presentation Skills - WCF</p> <p>DTP Task - WCF</p>

## Independent Work

Preparing for assessment is an essential part of each topic as each assessment allows teachers and students to see their progress. It is crucial that revision is completed so students can show what they know and we encourage students to revise from the start using the revision guide we source. Students also get given some practice exam questions and research which supports and enhances the learning in the classroom.