

## Curriculum Summary – Programmable Logic (Year 11)

Autumn	Spring	Summer
<p><b>R047: Principles of electronic and programmable Systems</b></p> <p>Students will be Preparing for their (January) Exam. They will:</p> <ol style="list-style-type: none"> <li>Analyse previous knowledge retained and structured plan of delivery of exam content.</li> <li>Review the following content: <ul style="list-style-type: none"> <li>Basic electronic circuit principles</li> <li>Electronic and programmable systems</li> <li>Components and devices</li> <li>Drawing and simulating electronic circuits</li> <li>Constructing electronic</li> <li>Testing electronic circuits</li> </ul> </li> </ol> <p>Students will complete a case study of applications of Microcontroller technology and the wider impact on modern technology.</p>	<p><b>R047: Principles of electronic and programmable Systems</b></p> <p><i>January Exam</i></p> <p>Students will review the exam paper after completion and perform question level analysis to identify where they need to improve.</p> <p><b>R049: Developing programmable systems</b></p> <p>This is assessed by a set assignment.</p> <p>In this unit students will learn how to how to determine hardware and system requirements to meet a given brief and select appropriate input and output devices.</p> <p>Students will learn how to draw circuit diagrams and block diagrams for circuits.</p> <p>Students will also learn how to use software to program microcontrollers and test systems to ensure they work correctly.</p>	<p><b>R049: Developing programmable systems</b></p> <p>Students will submit R049 Coursework for review and improvements before external assessment.</p> <p><b>R047: Principles of electronic and programmable Systems</b></p> <p><i>June Exam</i></p> <p>Students will revise key information and will test their knowledge using appropriate methods.</p> <p>Key information:</p> <ul style="list-style-type: none"> <li>Basic electronic circuit principles</li> <li>Electronic and programmable systems</li> <li>Components and devices</li> <li>Drawing and simulating electronic circuits</li> <li>Constructing electronic</li> <li>Testing electronic circuits</li> </ul>