

BLESSED TRINITY LEARNING PROGRAMME

SUBJECT: DT-Electronic Products

YEAR: 8

Title	Learning Objectives	Classroom Activity	Recommended Homework	Marking & Assessment
<p>Stylophone</p>	<p>Designing Skills</p> <p>Designing complex circuit using Circuit Wizard</p> <p>Transfer circuit designs onto PCB Make It programme.</p> <p>Writing detailed specifications with reasoning given to be used to guide designing.</p> <p>Annotation as a tool for design clarification</p> <p>Designing against a detailed specification</p> <p>Requirements of a final design.</p> <p>Critical analysis of designs as a process for development</p> <p>Modelling Using 2D Design</p> <p>Writing manufacturing plans</p> <p>Evaluating products</p>	<p>Analysis of Design Brief as a framework for a specification</p> <p>Produce a detailed specification</p> <p>Developing and simulating a circuit using Circuit wizard</p> <p>Converting complex circuits onto PCB Make It programme</p> <p>Designing casing</p> <p>Developing design on 2 D Design</p> <p>Writing plan of manufacture Identifying QC & QA</p>	<p>Images which could be used on the casing</p> <p>Analysis of existing products</p> <p>Moodle link to electricity in our lives animation</p> <p>Annotating initial designs</p> <p>Annotating final design</p>	<p>Written feedback and direction for improvement on worksheets assessment at least every 6 weeks</p> <p>Verbal feedback when working on computers and machinery</p> <p>Pupils to investigate and analyse their product/project using self and peer assessment.</p> <p>Pupils have evaluated their design work throughout</p> <p>Pupils will be creative in analysing their own products and seeing how they can improve.</p> <p>Pupils will use feedback from others in producing their evaluation</p> <p>Pupils will use the grow sheet to assess how they have achieved and what they need to do to improve</p>

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Title	Learning Objectives	Classroom Activity	Recommended Homework	Marking & Assessment
<p>Stylophone Continued.</p>	<p>Making Skills</p> <p>Manufacturing a 555 timer sound circuit board using PCB MakeIT</p> <p>Soldering a range of components onto circuit board</p> <p>Transfer and cutting of design using the laser for cutting and engraving</p> <p>Knowledge & Understanding</p> <p>Working safely in Electronics</p> <p>Recognition of components, symbols and their properties.</p> <p>555 Timer Electrolytic capacitor Ceramic capacitor Pre-set resistors Resistors</p> <p>The Design Process</p> <p>How the design of products is affected by technological advancement</p>	<p>Setting up and Manufacturing a circuit on Camm 2</p> <p>Soldering skills including H&S</p> <p>Identifying components visually and by their B.S circuit symbols</p> <p>Populating circuit boards with a range of components-</p> <p>SETTING UP LASER CUTTER.</p> <p>Manufacturing acrylic casing on laser cutter</p> <p>Assembling product self and peer assessment throughout the designing and manufacturing process</p> <p>Self and peer evaluation of Stylophone</p>	<p>Moodle link to simple circuits</p> <p>Moodle link to building circuits</p> <p>Moodle link to experimenting with circuits</p> <p>Revision</p>	<p>Written feedback and direction for improvement on worksheets assessment at least every 6 weeks</p> <p>Verbal feedback when working on computers and machinery</p> <p>Pupils to investigate and analyse their product/project using self and peer assessment.</p> <p>Pupils have evaluated their design work throughout</p> <p>Pupils will be creative in analysing their own products and seeing how they can improve.</p> <p>Pupils will use feedback from others in producing their evaluation</p> <p>Pupils will use the grow sheet to assess how they have achieved and what they need to do to improve</p> <p>Final assessment carried out by teacher CBL. Level awarded for designing, making and also an end of rotation test.</p>