

KS3 COURSE OPTIONS

Course Title	Electronic Products Year 7: Nightlights
Course Description	<p>This main aims of this module are to:</p> <ul style="list-style-type: none"> • Focus on the development of pupil's electronic skills and understanding of electronic components. • Consider how designs can be developed and ultimately added to their own work to customize their products. • Develop the student's use of tools and equipment, including computer-aided design and soldering technique.
Course Content (7 weeks)	<p>Students will learn:</p> <ul style="list-style-type: none"> • How basic electronic components work individually and together. • How to use a soldering iron to create simple electronic circuits. • About the working and material properties of plastic(s). • How CAD can be used to emulate a circuit (Crocodile Clips). • How to mark out accurately and precisely. • How to implement designs on high quality products.
Extra-Curricular Opportunities	
Useful Websites	
Important Information	<p>Three homework tasks will be set during the rotation:</p> <ul style="list-style-type: none"> • Design themes mood board • Investigation into Chris Hadfield • Timeline on the development of lighting.
Provision For Most Able	<p>Opportunity to use CAD CAM to enhance designing element of the nightlight project.</p> <p>Consideration of how the finished design would be marketed in a retail environment.</p>
Assessment	<p>The students work will be assessed three times during the module.</p> <ul style="list-style-type: none"> • After completing the specification for the nightlight • After completing design ideas for the nightlight • After completing the nightlight <p>A final design and make grade is assessed by pupil and teacher at the end of the module.</p>