

KS3 COURSE OPTIONS

Course Title	Year 8 Electronic Products: Amplifiers
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 • develop the students use of tools and equipment, including advanced soldering and computer-aided design
Course Content (Term 1,2,3 etc.)	<p>Students will learn:</p> <ul style="list-style-type: none"> • how more advanced electronic components work individually and together • about the working properties of plastic(s) • how CAD and laser cutting can be used to produce a detailed and individual casing. • how to correctly identify components and solder a Printed Circuit Board.
Extra-Curricular Opportunities	GCSE support sessions Wednesday afterschool, and a drop in session one day per week.
Useful Websites	<p>http://www.technologystudent.com/ http://www.bbc.co.uk/schools/gcsebitesize/design/electronics/ http://www.edutek.ltd.uk/index.html http://www.picaxe.com/ http://www.rapidonline.com/</p>
Important Information	<p>Three homework tasks will be set during the rotation:</p> <ul style="list-style-type: none"> • Corporate logo mood board • Investigation into Apollo Program • Timeline on the development of sound innovations.
Provision For Most Able	<p>Further development of CAD skills through the production of a complex design that includes a number of different design drawings. Additional work on component theory and uses. Opportunity to develop presentation skills through product sales pitch presentation.</p>
Assessment	<p>The students work will be assessed 3 times during the module.</p> <ul style="list-style-type: none"> • After completing the specification for the Amp • After completing design ideas for the Amp • After completing the Amp <p>A final design and make grade is assessed by pupil and teacher at the end of the module.</p>