

# CURRICULUM MAP: Design Technology Year 8 Long Term Plan 2018 – 2019



	<b>Module Product Design 13 weeks</b>	<b>Module Electronics 13 weeks</b>
<b>Key concepts</b>	Key Skills Understand Health & Safety in a workshop. Industrial manufacturing techniques and processes Design, Develop, Model, Mould, Prototype Use of the Vacuum Former Problem Solving Design through Sketching and Modelling Functionality and Aesthetics Innovation through Iterative Design	Key Skills Electronic production, industrial processes. Circuit design, computer simulation, bread boarding, PCB production, population and soldering. CAD images, CAM manufacture Sensors, transistors and potential dividers Design through Sketching and Modelling Functionality and Aesthetics Innovation through Iterative Design
<b>Themes</b>	Clock based on biomimicry	Sensor unit
<b>Writing Whole school literacy focus</b>	Technical terms Research Analysis Specification	Annotation and opinion Report and evaluative
<b>Technical terms</b>		Analysis Description Evaluation
<b>Spiritual, Moral, Social and Cultural theme (SMSC) Fundamental British Values (FBV)</b>	Where do our resources come from (plastic)? Re-cycling, re-using and economical use of materials. How to help and support others. Use of Biomimicry in the develop of products	Where do our resources come from (electronic Components)? Re-cycling, re-using and economical use of materials. How to help and support others. The development of automation in the development of products and industry and its effect on the work force and jobs
<b>Key Assessment Focuses, Suggested Assessments and Feedback Week</b>	Student Self- assessment Peer Appreciation and understanding the key concepts of feedback and question and answer for learning Week 5 & Week12 Key Teacher Feedback Weeks	Development of peer and self-assessment Understanding of problem solving and learning through experimentation and exploration Week 7 & Wk11 Key Teacher Feedback Weeks
<b>Special Events</b>		
<b>Possible Visits</b>		