

Deyes High School Remote Learning



DEYES
HIGH
SCHOOL
LYDIATE
LEARNING TRUST

Year 8 D&T Electronics

Engage, Enable and Empower

Work for individual students not attending school

Half Term 2: October to December

Pupils who are absent should select the activity that they are up to. Click on the link in the activity box below. This will take you to Office 365 where the work is stored. In the lesson it will tell the pupil if they need to submit the work to their teacher.

Lessons

Date (week commencing)	Lessons	Focus/Topic/Theme	Hyper link to Activity
2/11/20	1	Design ideas for casing.	<p>Year 8 Electronics https://deyes.sharepoint.com/:p:/r/sites/TemporaryCurriculumResources/layouts/15/Doc.aspx?sourceid=%7BCB831E72-580E-49F4-AA49-3FA71AA97DB4%7D&file=Booklet%20-%20Y8%20Electronics%20%20Booklet%20new.pptx&action=edit&mobileredirect=true</p>
9/11/20	2	Final Design for casing.	
16/11/20	3	Age of plastics.	
23/11/20	4	Safety when using a vacuum former.	
30/11/20	5	Safety for making	
7/12/20	6	Revision using Knowledge Organiser	
14/12/20	7	Knowledge Organiser Test	

Who to contact

You can email **your class teacher** if you have any questions regarding the activities set.

D.Jones@deyeshigh.co.uk
E.fearon@deyeshigh.co.uk
S.norbury@deyeshigh.co.uk



Year 8 Electronic Design Challenge (Design with Sensors) Organiser – Electronics (CAD modelling)

Facts about plastic
Plastic is made from crude oil

Plastic is not renewable meaning when oil runs out, so will plastic

Plastic comes in different stock form including granules, sheets and rods

Classification of plastics

Thermoplastics

- Can be heated and shaped repeatedly into different products.
- Can be recycled

Acrylic, PVC, polythene, nylon, polypropylene

Thermosetting

- Can only be heated and shaped once into a product.
- Not recyclable

Epoxy resin, polyester resin, urea formaldehyde

Input → Process → Output

Computer Aided Design and Manufacture

Keyword	Definition	Example	Advantages of CAD	Disadvantages of CAD
LED	Light emitting diode – Glows when electricity passes through (one direction)	Lighting	Range of tools available	Software can be expensive to set up
Transistor	Amplifies or switches electronic signals and electrical power.	In a light sensor circuit.	Accuracy of drawing can be improved due to the measurement tools	Training is required that can cost money and take time
Resistor	Restricts or limits the flow of current in a circuit	Between USB power source and LEDs	Easier to modify drawing	Work can be lost if not backed up
Solder	An alloy used to join electronic components on a circuit board	Joining LED to resistor	Saves electronically so no need to physical storage	Specialist technicians may be required if there are technical problems
			Can be sent to clients immediately via email	