

6th Form Induction

Design and Technology: Engineering Design

Tuesday 27th June

14:30 – 15:30

Room 29

Teacher: AT

Introduction to Specification
Outcomes expected
Expectations of the course
Sketching functional products/items

Wednesday 28th June

10:10-11:10

Room 29

Teacher: AT

Introduction to resources: Circuit Wizard, Arduino, Lego, Vex.
Practical ideas and expectations.
Introduction to stakeholders and contexts.

Induction work –

Research of iterative designing, what is it?

Download the ID cards app to research different sketching styles:


<http://www.lboro.ac.uk/enterprise-awards/international/id-cards.html>






Exploring stakeholders and contexts. What opportunities are there in the real world, that you could design to?

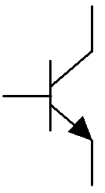
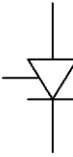
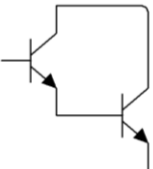
Download the Arduino IDE or sign up to the Arduino Web Editor

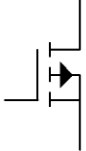
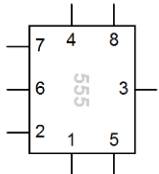
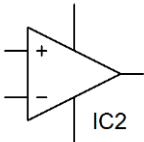
<https://www.arduino.cc/en/main/software> then research/explore/create using the software to prepare.

Component Identification sheet:

Photograph	Switch Type	Uses/Application
		

Symbol	Name	Purpose, Potential Application
	TRANSISTOR	
	THYRISTOR	
	DARLINGTON PAIR	

	FIELD EFFECT TRANSISTOR	
	555 TIMER	
	OPERATIONAL AMPLIFIER	