

6th Form Induction

Design and Technology: Engineering Design

Induction Session 1

Introduction to Specification

Outcomes expected

Expectations of the course

Sketching functional products/items

Induction Session 2

Introduction to resources: Circuit Wizard, Arduino, Lego, Vex.

Practical ideas and expectations.

Introduction to stakeholders and contexts.

Induction work –






Review the following video on creating innovative briefs.





<https://www.youtube.com/watch?v=CnKeVs-9zs>

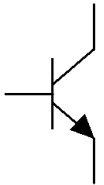
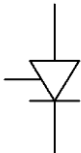
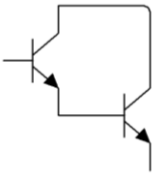
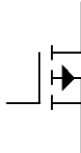
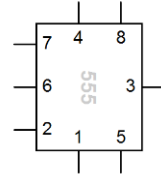
Exploring stakeholders and contexts. What opportunities are there in the real world, that you could design to?

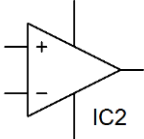
Download the Arduino IDE or sign up to the Arduino Web Editor

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

Photograph	Switch Type	Uses and Application
	Toggle	
	Slide switch	
	Rocker switch	
	Key Switch	
	Push to Make switch	

	Push to Break	
	Tilt Switch	
	Micro Switch	
	Reed Switch	

Symbol	Name	Purpose, Potential Application
	TRANSISTOR	
	THYRISTOR	
	DARLINGTON PAIR	
	FIELD EFFECT TRANSISTOR	
	555 TIMER	

	OPERATIONAL AMPLIFIER	
---	--------------------------	--