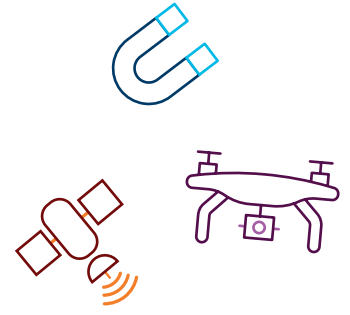


The IET

DIY Faraday Challenge Day

Smart Cycle Teacher Extras





DIY Faraday Challenge Day





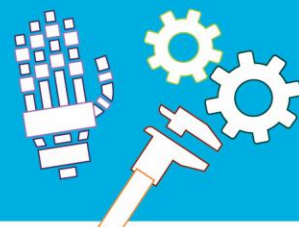
Presented to



Signed by

Date





Student Team Registration Form

Team No:

Faraday Challenge Date:

Your School Name:

Your Teacher's Name:

Team Members

1

2

3

4

5

6

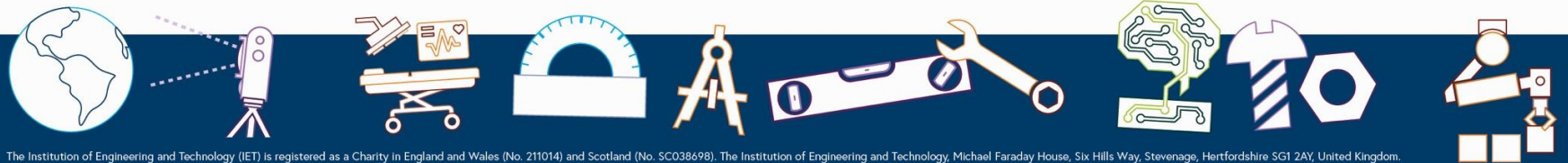




Faraday Challenge Day

Shop Manager Balance Sheet Host School Date

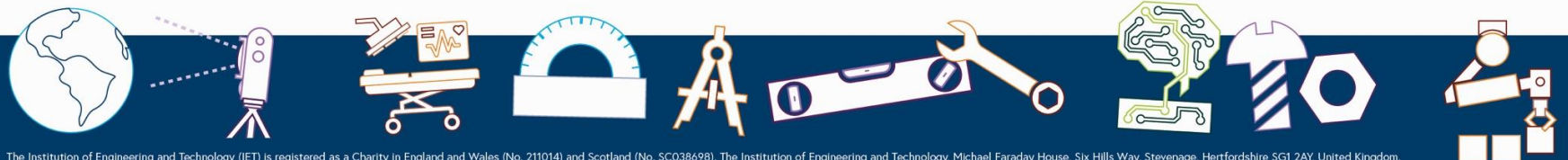
Faradays spent at each visit to the shop	Team 1	Team 2	Team 3	Team 4	Team 5	Team 6	Team 7
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
TOTAL FARADAYS SPENT							

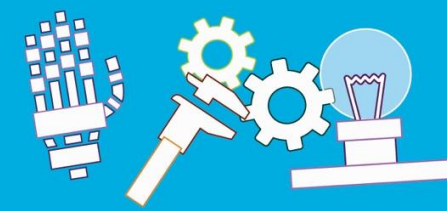




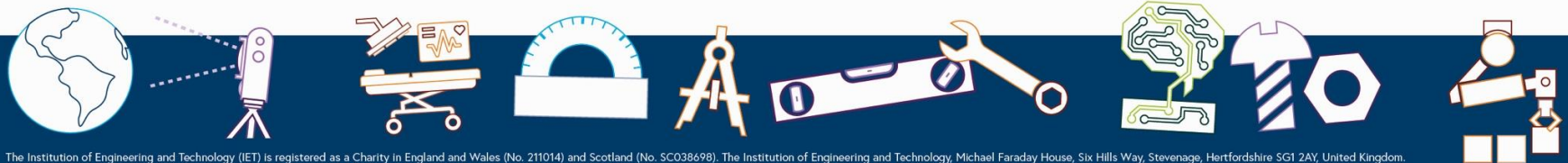
Purchasing notes for the Shop Manager (Technician)

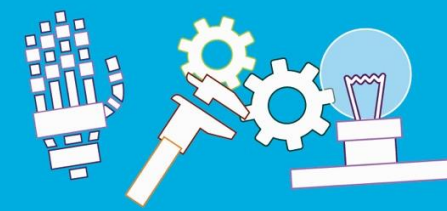
- This sheet will be used to cross-check the accounting sheets from the student teams for scoring
- Use this sheet to record every transaction with students – item and cost
- Students may sell back unwanted items at half price
- Students may buy lower measurements of materials at a reduced price – i.e. metre of red copper wire = 10 Faradays per metre as a standard cost. Students may buy half a metre for 5 Faradays
- Students must not use craft knife themselves. Cutting into desired size by the Shop Manager (Technician) is included in the price.
- Gluing using low melt guns and cutting is free of charge and students may operate these under supervision of the Shop Manager (Technician)



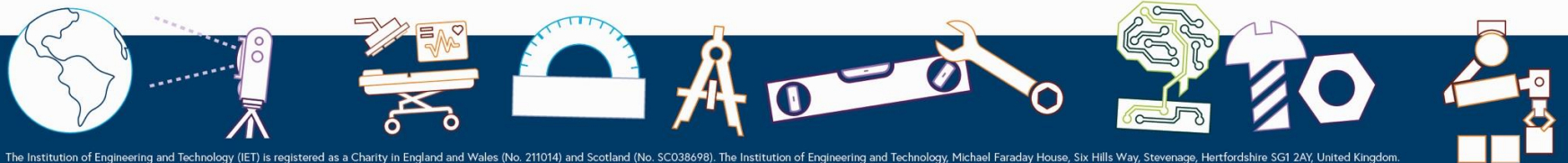


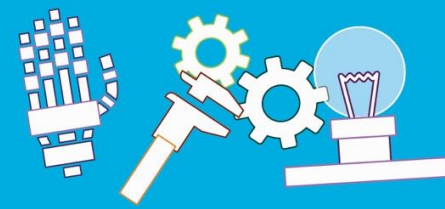
Printing Station



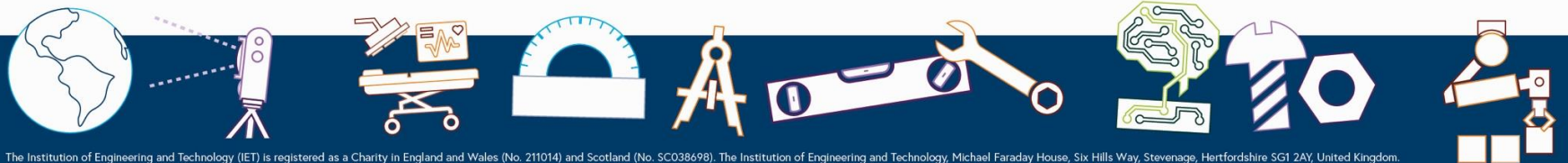


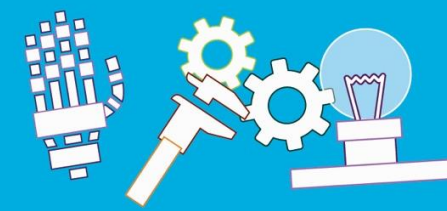
Judges Table



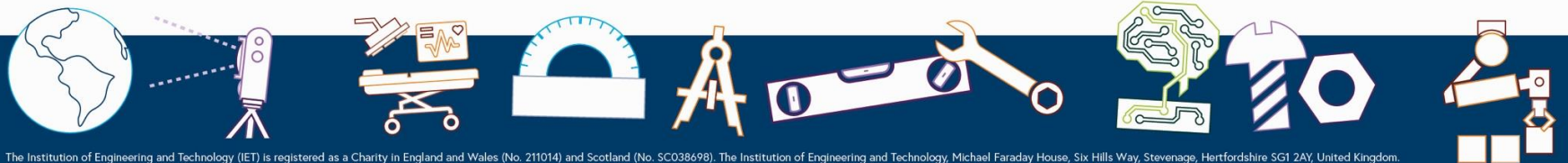


Inspiration Station

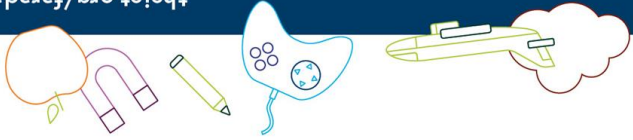




The Shop

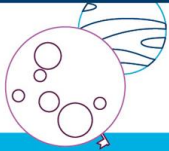


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Copper wire - red



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Copper wire - red

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Copper wire - black

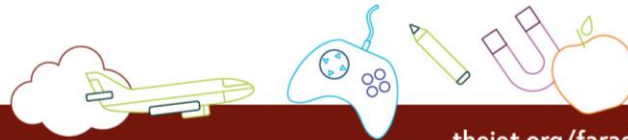


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Copper wire - black

F5.0



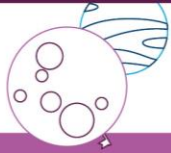
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Croc leads - black



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Croc leads - black



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Croc leads - red



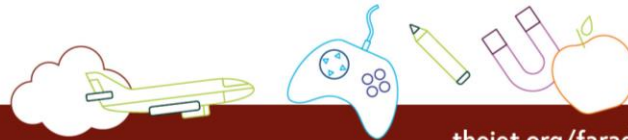
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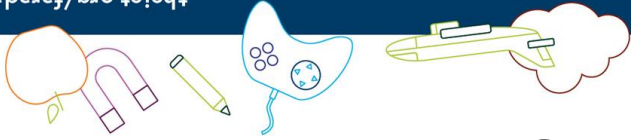
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Croc leads - red



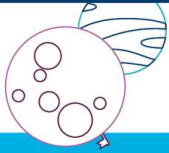
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**LED bulb –
single colour**



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**LED bulb –
single colour**

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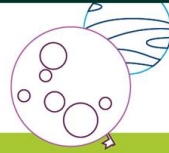
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F10.0

**LED bulb -
flashing**



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flashing**

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Terminal blocks

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Terminal blocks

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Temperature sensor

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Temperature sensor

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**Light
Dependent
Reisistor**

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**Light
Dependent
Reisistor**

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Buzzers 3 volt

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Buzzers 3 volt

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F2.0

Batteries AA size



Batteries AA size

F2.0



F1.0

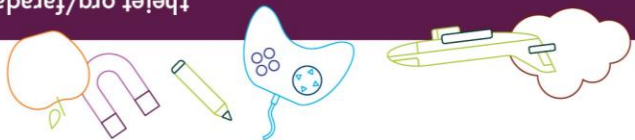
Battery holder 2 x AA



Battery holder 2 x AA

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F15.0

**Breadboard
and wire set**



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**Breadboard
and wire set**

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Bulb 3V



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Bulb 3V

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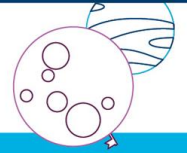


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Bulb holder



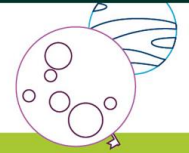
Bulb holder

F1.0



F10.0

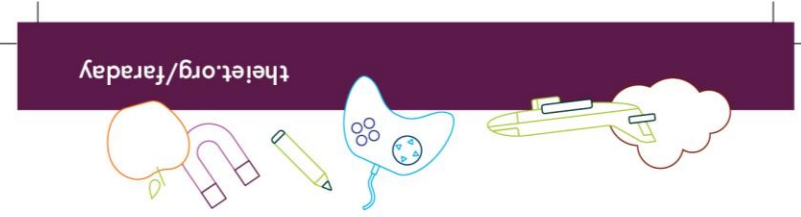
Transistor



Transistor

F10.0





F5.0

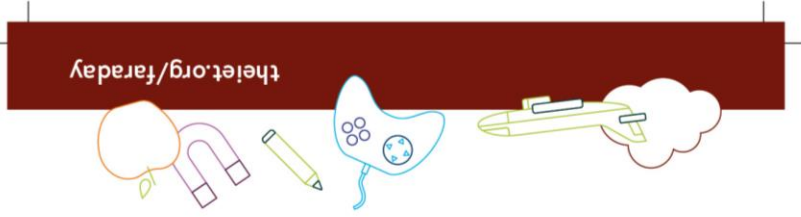
Resistor



Resistor

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**Potential
Divider**



**Potential
Divider**

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3D Design A



3D Design A

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F20.0

3D Design B



3D Design B

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3D Design C



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3D Design C

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**First 20g of
print material**



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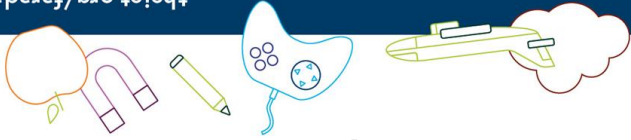
**First 20g of
print material**

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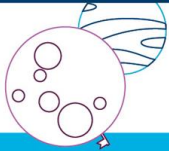
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Print time (per 30 minutes)



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Faraday Challenge Days

Print time (per 30 minutes)

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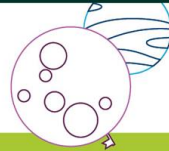
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STEM Consultant



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STEM Consultant

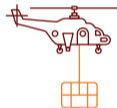
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Faraday Reserve Note

= One Faraday



Michael Faraday





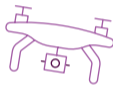
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F5

Faraday Reserve Note

Five Faradays



Michael Faraday





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F10

Faraday Reserve Note

Ten Faradays

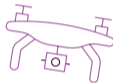
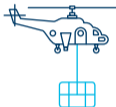
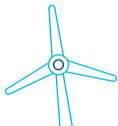


Michael Faraday



Faraday Reserve Note

Twenty Faradays



Michael Faraday