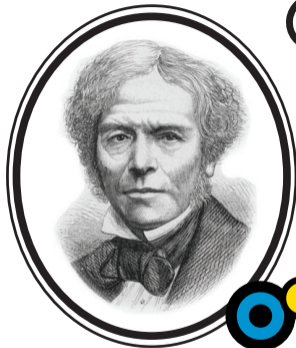


Faraday

Faraday Reserve Note **ONE FARADAY**

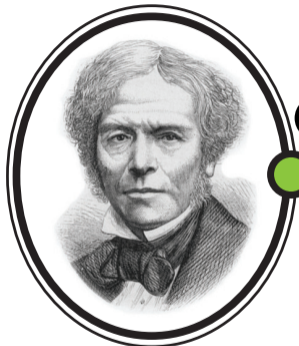


Michael Faraday



Faraday

Faraday Reserve Note **FIVE FARADAYS**

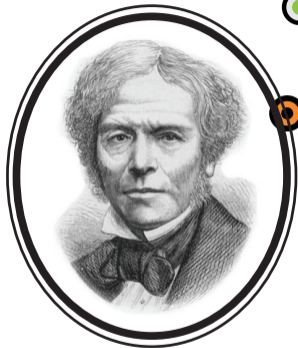


Michael Faraday

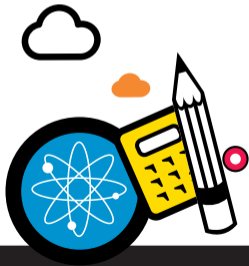


Faraday

Faraday Reserve Note **TEN FARADAYS**

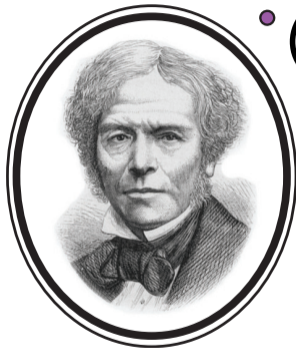


Michael Faraday

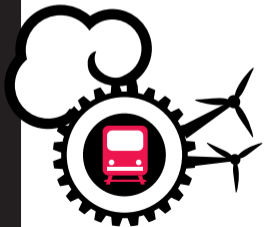


Faraday

Faraday Reserve Note **TWENTY FARADAYS**



Michael Faraday





Faraday Challenge Day

Name

.....

Role

.....





Faraday Challenge Day

STEM Consultant



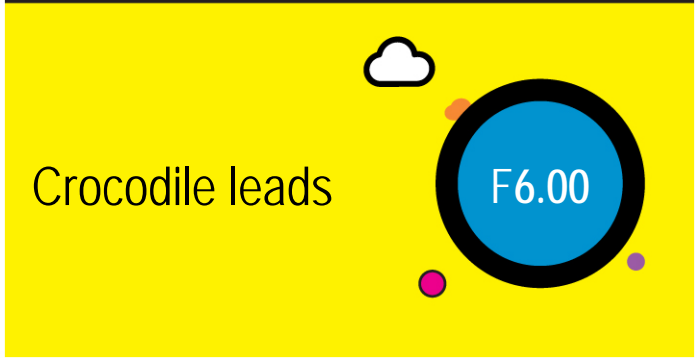
Crocodile leads

F6.00



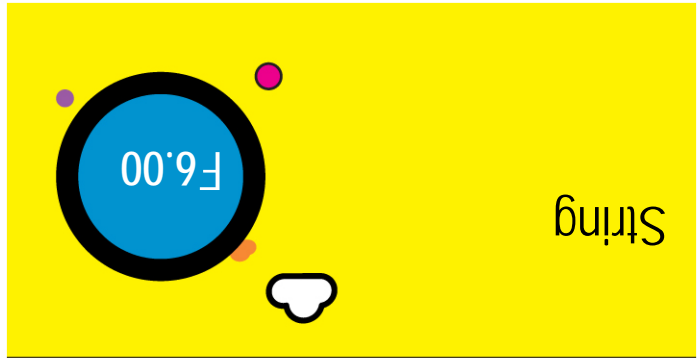
Crocodile leads

F6.00



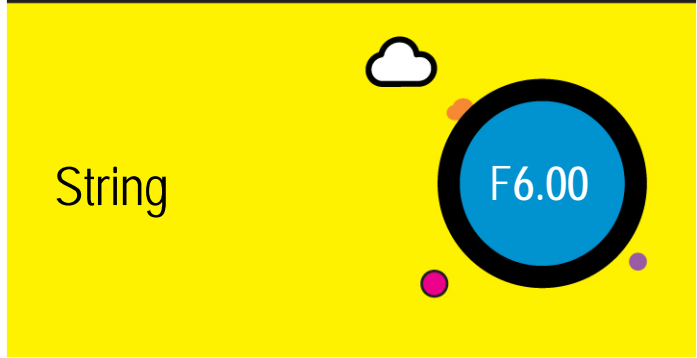
String

F6.00



String

F6.00



Piezo buzzer

F8.00



Piezo buzzer

F8.00

LEDs - green

F8.00



LEDs - green

F8.00

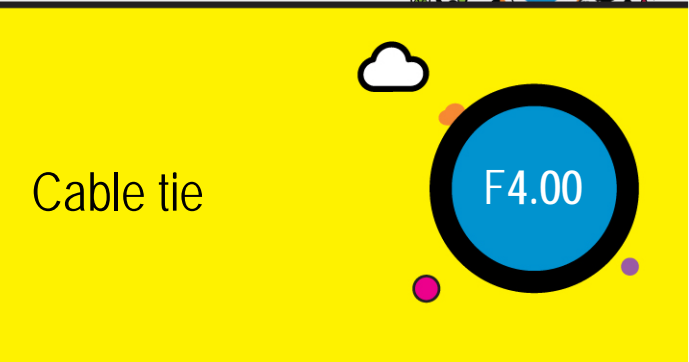
Cable tie

F4.00



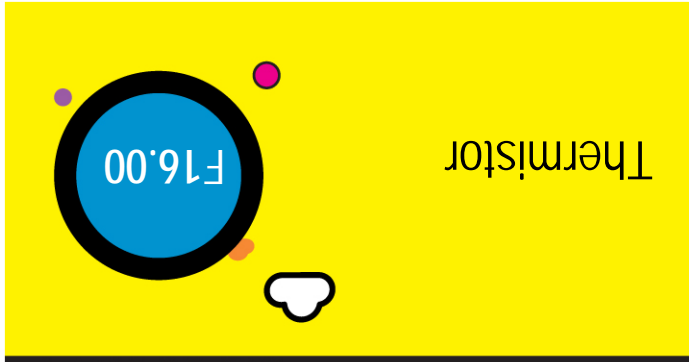
Cable tie

F4.00



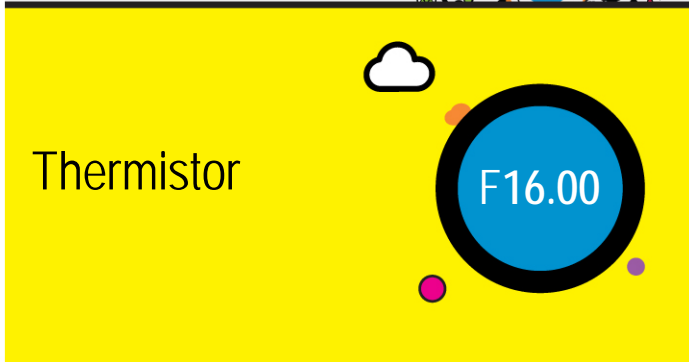
Thermistor

F16.00



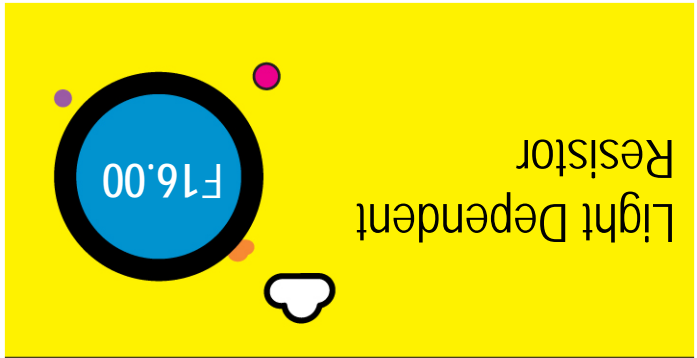
Thermistor

F16.00



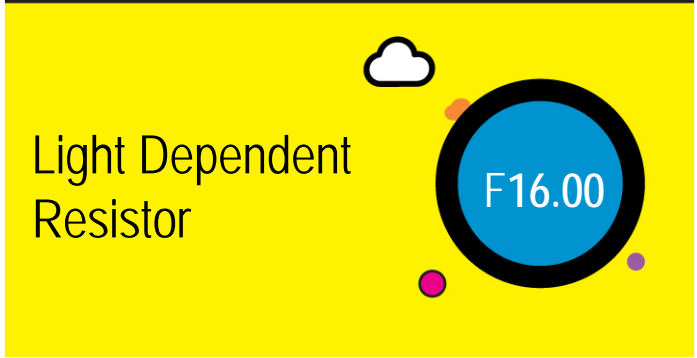
Light Dependent Resistor

F16.00

A yellow rectangular card with a white cloud icon at the bottom left. A blue circle with a black border is positioned on the right side, containing the text 'F16.00' in white. The background is decorated with small pink and purple dots.

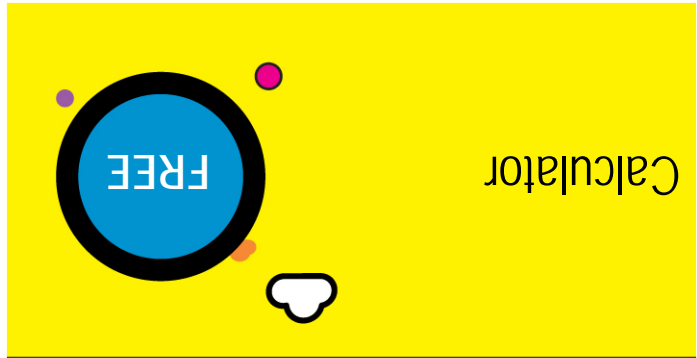
Light Dependent Resistor

F16.00

A yellow rectangular card with a white cloud icon at the top left. A blue circle with a black border is positioned on the right side, containing the text 'F16.00' in white. The background is decorated with small pink and purple dots.

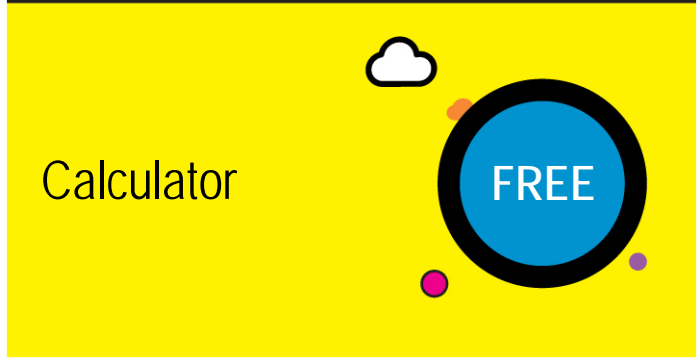
Calculator

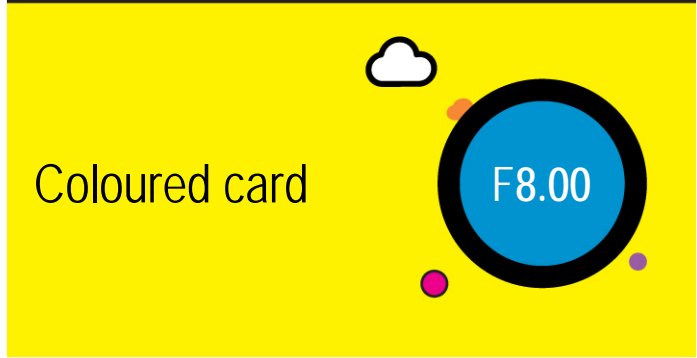
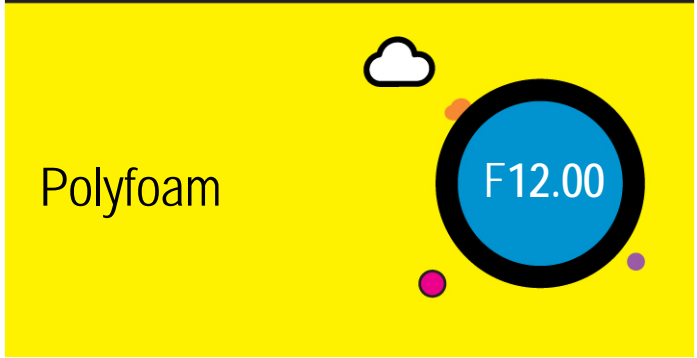
FREE

A yellow rectangular card with a white cloud icon at the bottom left. A blue circle with a black border is positioned on the right side, containing the text 'FREE' in white. The background is decorated with small pink and purple dots.

Calculator

FREE

A yellow rectangular card with a white cloud icon at the top left. A blue circle with a black border is positioned on the right side, containing the text 'FREE' in white. The background is decorated with small pink and purple dots.



Thick foam

F6.00



Thick foam

F6.00

Green wire

F4.00



Green wire

F4.00

Dowel

F6.00



Dowel

F6.00

Masking tape

F6.00



Masking tape

F6.00

Scissors

F4.00



Scissors

F4.00

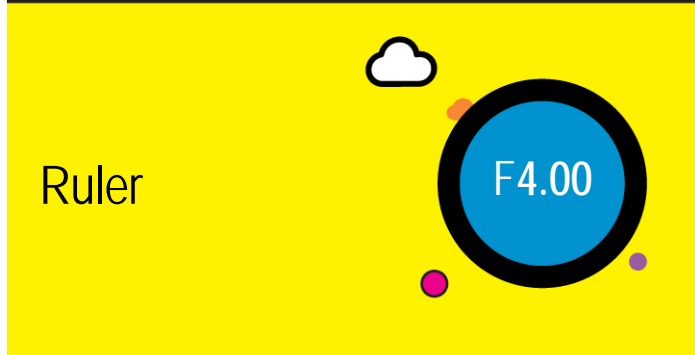
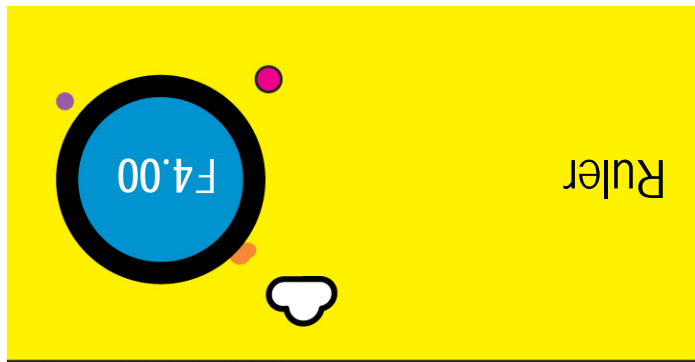
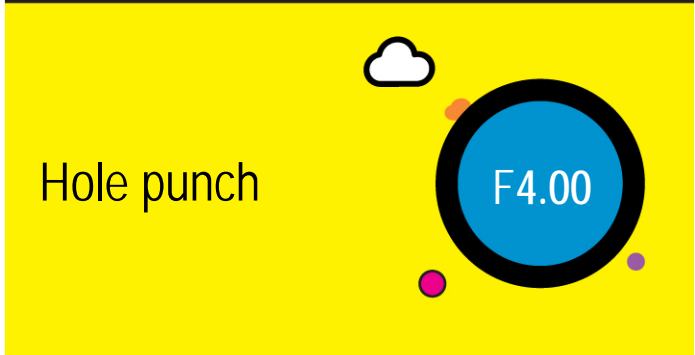
Stapler

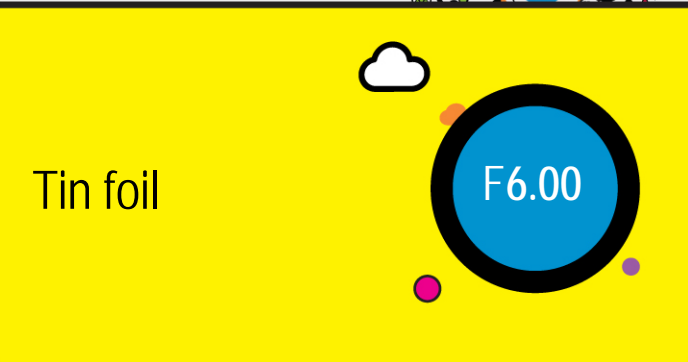
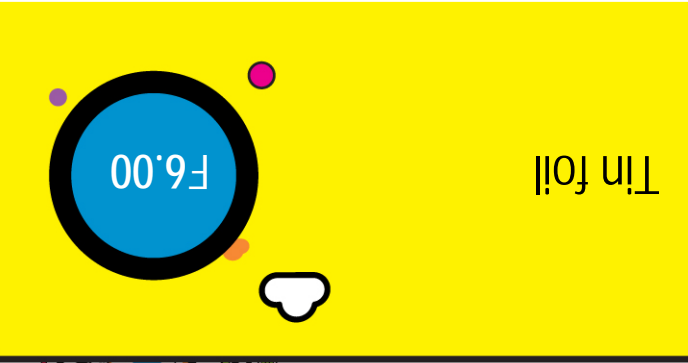
F6.00



Stapler

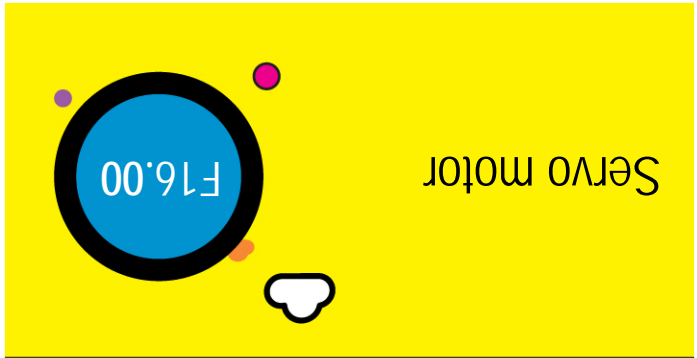
F6.00





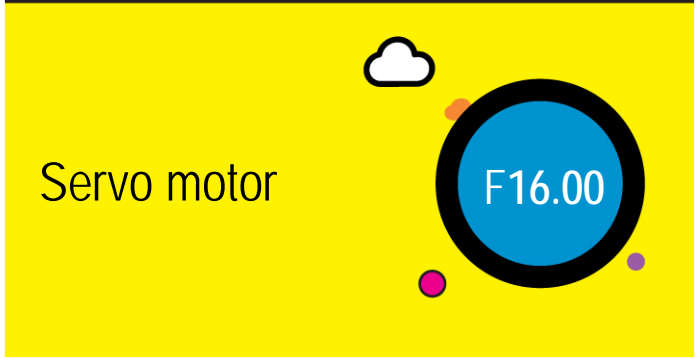
Servo motor

F16.00



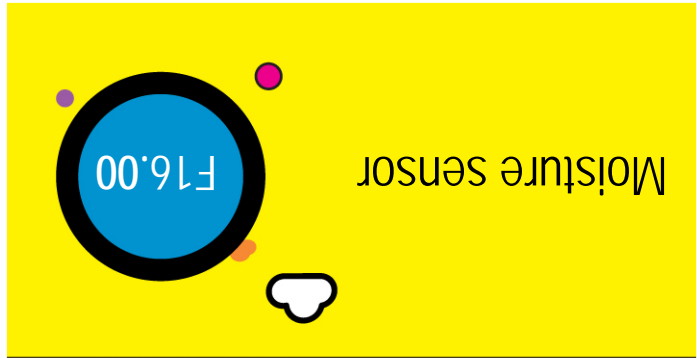
Servo motor

F16.00



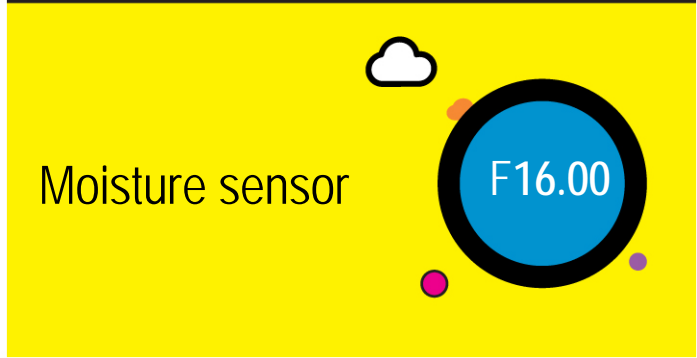
Moisture sensor

F16.00



Moisture sensor

F16.00



Strapping

F8:00



Strapping

F8.00

Tape measure

F6.00



Tape measure

F6.00

Flex sensor
F16.00



Flex sensor
F16.00

Strong clear plastic
F4.00



Strong clear plastic
F4.00






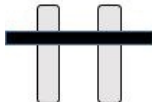


IET Faraday Challenge Day

Shop Manager Balance Sheet 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							
11							
TOTAL FARADAYS SPENT							

Shop resource sheet for shop manager

Below are the items available to buy in the shop.

Item		Description	Unit	Cost
Crocodile leads		Lead with crocodile clips at each end	Each	6 Faradays
Piezo buzzer		Connect to the rings in a circuit to give a sound output	Each	8 Faradays
LED – green		LED which can be connected to the rings in circuit – green. Must be used with a resistor.	Each	8 Faradays
Thermistor + resistor		Component that detects the ambient temperature and changes resistance to allow a current to flow through a circuit. Must be used with a resistor.	Each	16 Faradays
Light Dependent Resistor + resistor		Component that detects the light level and changes resistance to allow a current to flow through a circuit when it becomes dark. Must be used with a resistor.	Each	16 Faradays
Moisture sensor		Component which detects moisture in the surroundings.	Each	16 Faradays
Servo motor		This is a motor whose angular motion can be controlled. It is used if you want to move something to a specific position.	Each	16 Faradays
Flex sensor		Used to detect whether a material is bending.	Each	16 Faradays

Item	Description	Unit	Cost
Strapping	Used to strap the BBC micro:bit on for wearable technology products	30 cm piece	8 Faradays
Tape measure	Used for measuring distance for distance/time or speed calculations	Each	6 Faradays
Strong clear plastic	Rectangular piece of plastic	Each	4 Faradays
Dowel	15cm piece of solid cylindrical wooden rod used to create structures	Each	6 Faradays
Polyfoam	A5 foam sheet – assorted colours	Each	12 Faradays
Green wire	Used to connect structures (not for connection to the micro:bit)	20 cm piece	4 Faradays
Coloured card	A4 sheet of card – assorted colours	Each	8 Faradays
Tin foil	A conductive material	30cm strip	6 Faradays
Masking tape	Can be used to secure parts in your design - do not stick anything to your BBC micro:bit or it may not work properly.	30cm piece	6 Faradays
Thick foam	Can be used to make pressure switches or enhance your design.	Each	6 Faradays
Cable ties	Can be used to hold your BBC micro:bit onto a background	Each	4 Faradays
Scissors	Used for soft materials only – do not use to cut wires or any part of your BBC micro:bit.	Each	4 Faradays
Stapler	Used to staple soft materials only – do not use to staple anything to your BBC micro:bit	Each	6 Faradays
Hole punch	Used to make small holes in soft materials	Each	4 Faradays
Rulers	Used to measure any part of your product or additional items	Each	4 Faradays
String	Can be used as part of your product design	30cm piece	6 Faradays

