

# Can a lemon power a lightbulb?

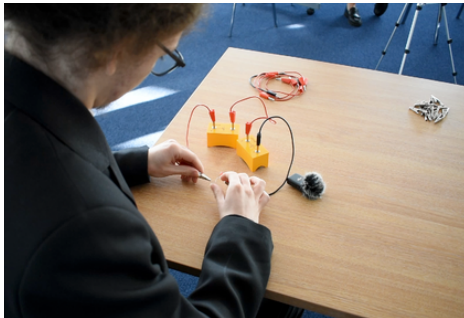
Ideal for: P6 - S1



This experiment investigates if a lemon can power a lightbulb within a series circuit.

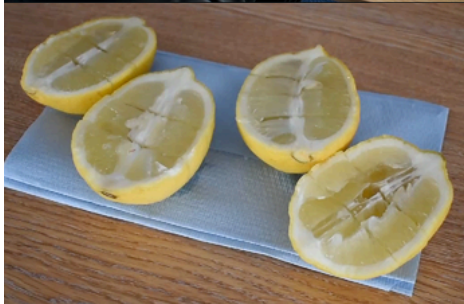
## You will need:

- Wires
- Bulb
- Knife (age appropriate)
- Lemon (cut in half)
- Crocodile clips
- Copper strips
- Zinc strips
- Battery
- Ammeter



## Step one

Create a series circuit using a battery, 1 bulb and wires.

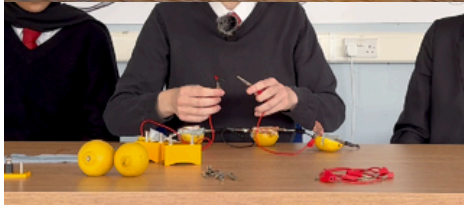


## Step two

Remove the battery from the circuit.

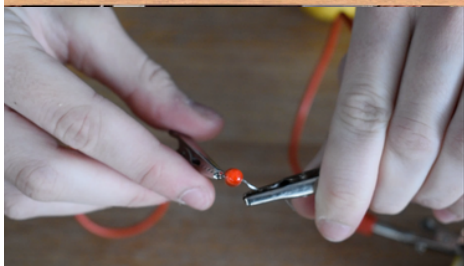
## Step three

Prepare the lemon by cutting this in half and placing a copper strip at one end and a zinc strip at the other.



## Step four

Place the lemon into the circuit in place of the battery by attaching the wires to the strips using crocodile clips. Your bulb should light up!



## Step five

Repeat this experiment with a potato or other citrus fruit.