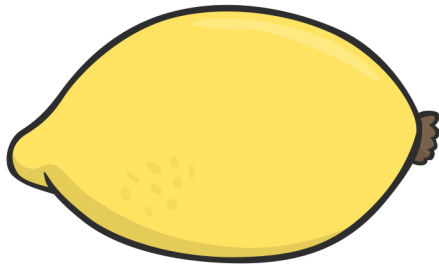
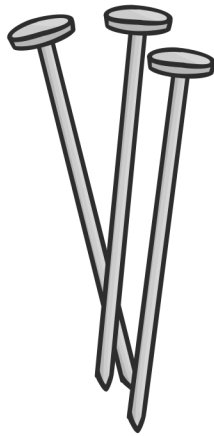


# Creating a lemon battery

## Items required:



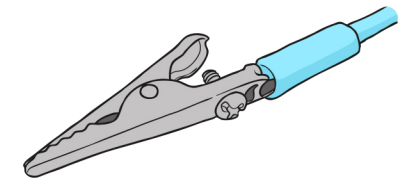
One or more large  
fresh lemons



Galvanised  
zinc coated nails



Some copper coins

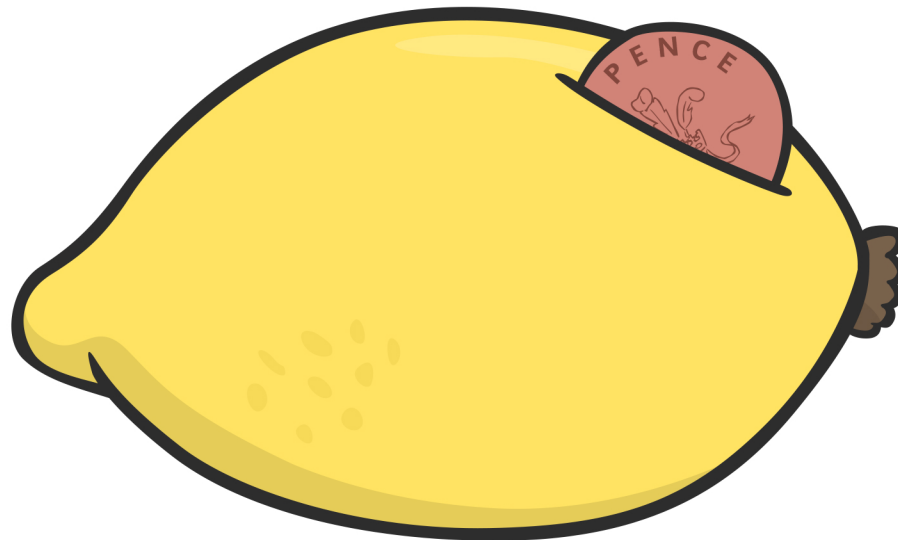


Crocodile clip leads

## Creating a lemon battery

**Step 1:**

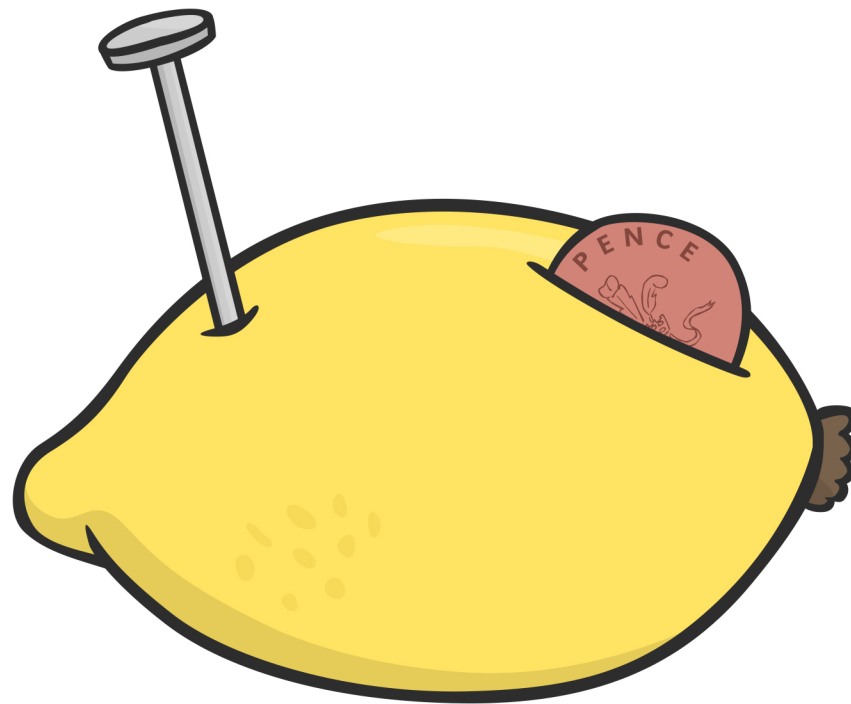
Insert a coin into the side of the lemon.



## Creating a lemon battery

### Step 2:

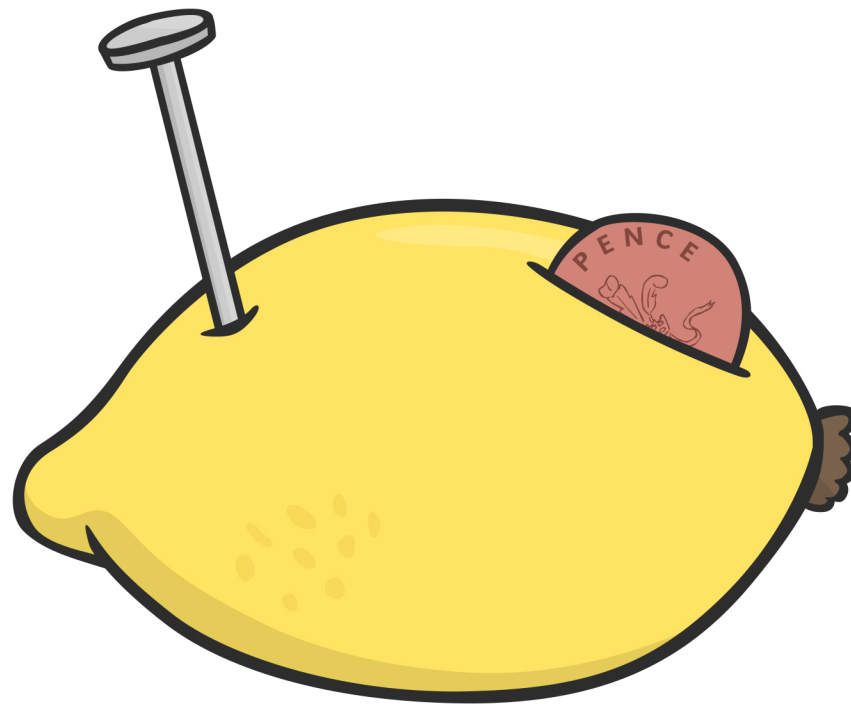
Push one of the nails into the other side of the lemon.  
Make sure that the coin and nail do **not** touch.



## Creating a lemon battery

This is one single battery cell.

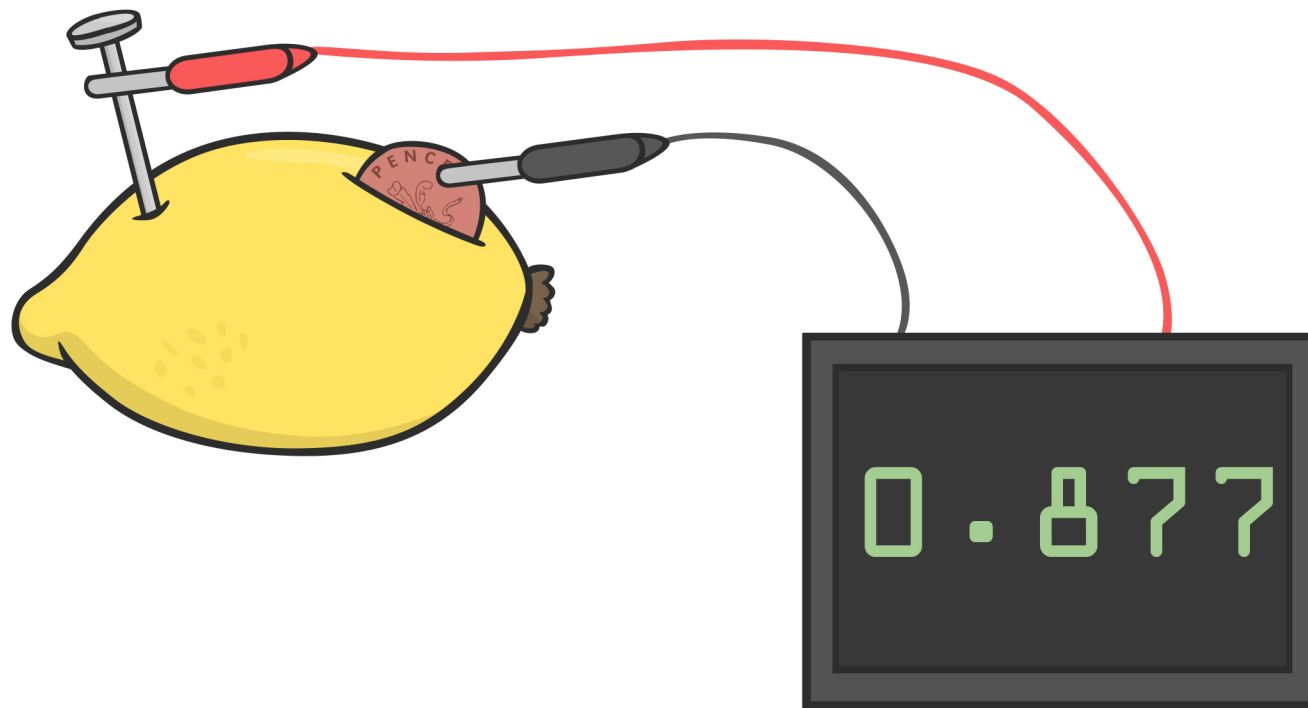
The copper coin and zinc nail act as electrodes and the juice in the lemon acts as the electrolyte.



## Creating a lemon battery

### Step 3:

You can check that the lemon battery cell is producing a voltage by connecting a volt meter to the electrodes.



## Creating a lemon battery

### Step 4:

To power a small bulb you will need to create more battery cells and connect them together. This will create a higher voltage.

