



Battery Power Experiments:

Experiment 1:

Can a home made battery work effectively?



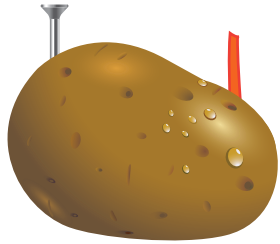
**Having trouble
powering up your
devices?**

**You might need a
new power source.**

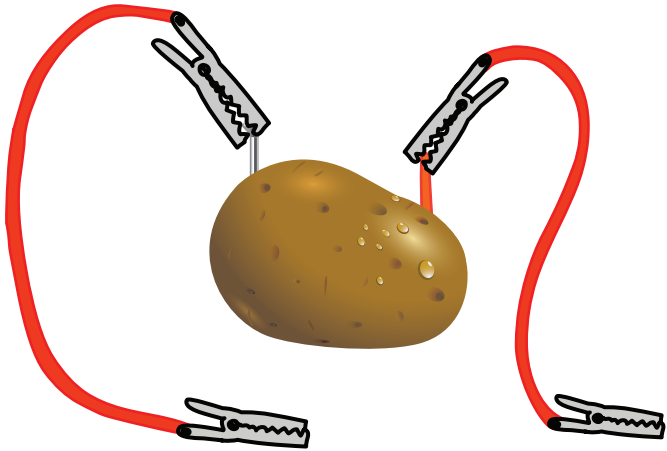
**Why don't you try a
potato?**

No, I'm not joking!

What to do:



1) Carefully push the screw and the copper wire deep into the potato. Keep them as far apart as possible.



2) Connect one insulated wire to the screw and one to the copper wire using the clips.

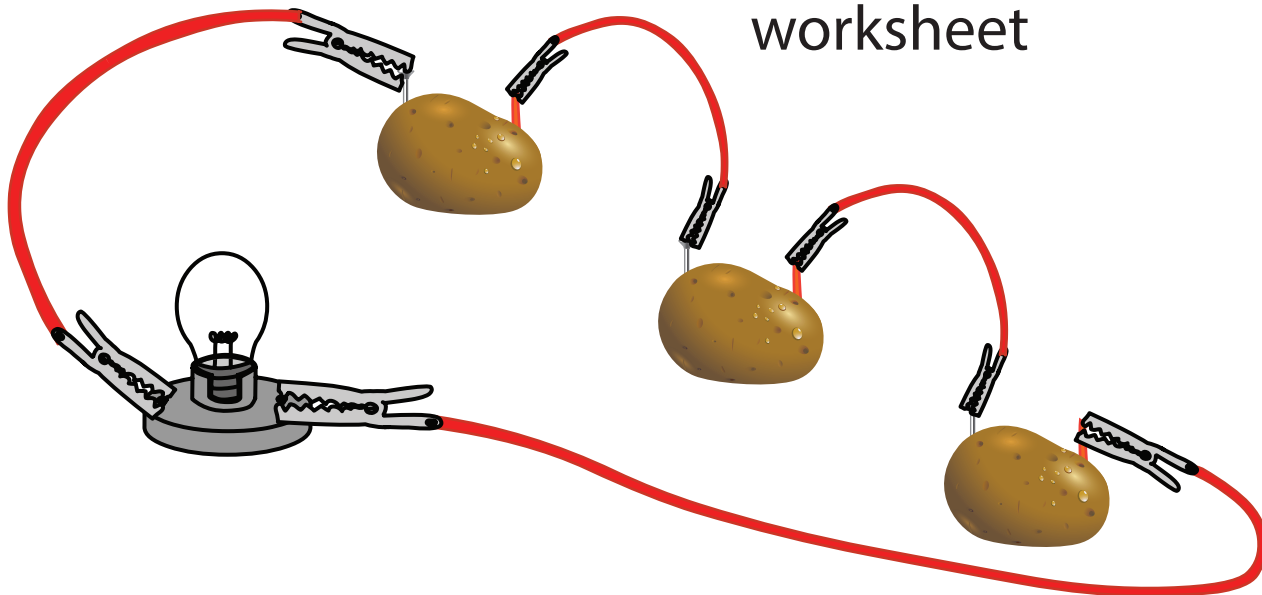
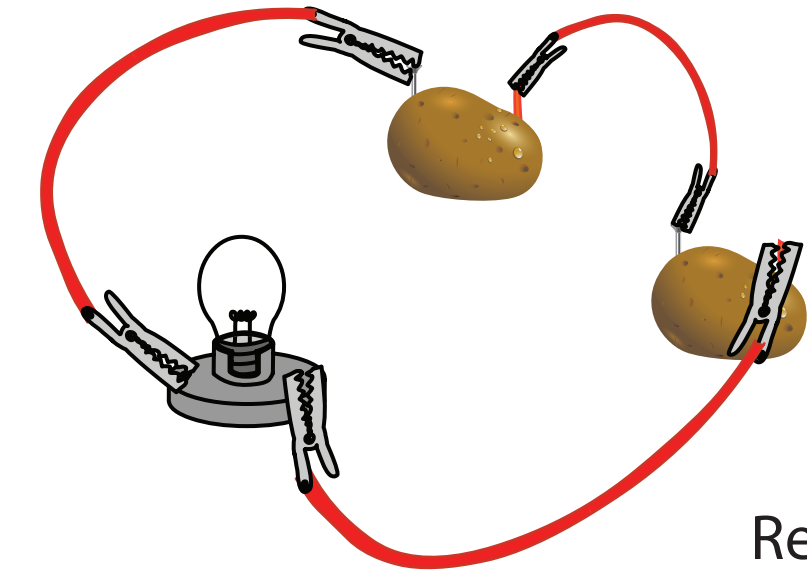







3) Connect the other ends of the insulated wires to the screws in the lamp holder.

Try connecting several potatoes in series.

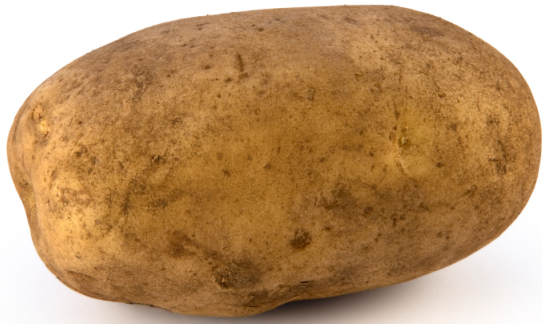
What happens to the lamp when it is connected to one, two, three or more batteries?

Record your findings on the Studyladder worksheet



Making Batteries		Name: _____	Date: _____
Aim: To find out if organic materials make effective electrochemical cells.			
Equipment I used:		Diagrams:	
 galvanized nail or screw	 piece of copper wire	 insulated copper wires	
 low voltage lamp	 potatoes	Other Organic Materials:	
Observations: Potatoes		Observations: Other organic materials	
1) When I used one potato...			
2) When I used two potatoes in series...			
3) When I used three potatoes in series...			
Conclusions:			

You will need:



A potato



**A galvanized screw
or nail
(containing zinc)**



**A small piece of
copper wire**



**A pair of insulated
wires with
crocodile clips**



**A low voltage (1.5V)
bulb and bulb holder**



**Selection of other
fruits and vegetables**

Try this experiment with other fruits and vegetables !

