



PUMPKIN POWER

Experiment

THE MYSTERY OF SCIENCE

1

Cut one slit into each side of each pumpkin. Try to make each slit about the size of your zinc and copper strips.

2

Insert one zinc strip into one side of the first pumpkin. Insert one copper strip into the other side, making sure they do not touch. Do the same with each pumpkin.

3

Chain two pumpkins together with an alligator clip by connecting a zinc strip to a copper strip. Test pumpkin with a voltmeter to see if you have power. Record power level in the table.



Prep your pumpkin

4

Add a pumpkin by linking it to the second pumpkin with another alligator clip. Test again. Has the amount of power increased?

5

Add lightbulb with another alligator clip to create a circuit. Test power with multimeter. Record in table. (on p. 2)

Link pumpkins: connect a zinc strip on one to a copper strip on the next, and so on. Use an alligator wire with a clip to connect each end pumpkin to one side of your lightbulb. Did it light?

6

Add your fourth pumpkin in the same way as the third. Test and record the power. Now try the lightbulb. Did it light?



Create a circuit.

DATA & ANALYSIS

NOTE: If there is one part of your circuit that is broken or not hooked up properly, your lightbulb will not light.



Number of Pumpkins	Voltmeter Reading	Light Up Y/N?
1 Pumpkin		
2 Pumpkins		
3 Pumpkins		
4 Pumpkins		

Sketch

Sketch your pumpkin chain below, labeling each zinc plate with a “Z” and each copper plate with a “C.”

Was your hypothesis correct? Y/N