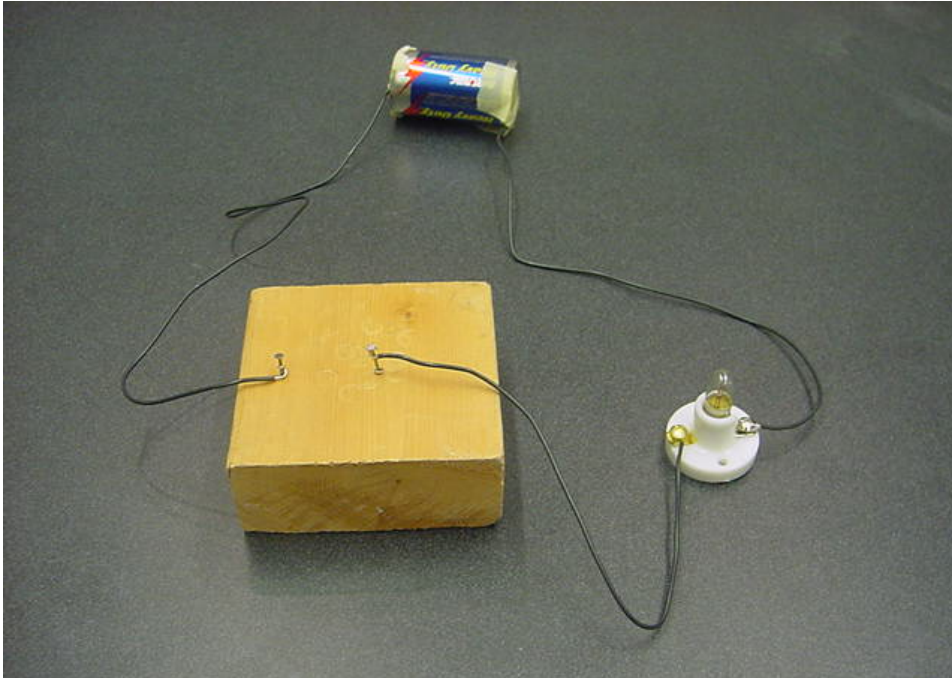


Switcheroo Worksheet Answers

1. In the space below, draw a picture of the switch circuit.



2. Make a list of all the objects available to make a switch. Next to each object, write “**good switch**” if you predict it will make a good switch and “**no**” if you predict it will not.

Object	Prediction: Will this be a good switch?
Example possible objects:	Example possible predictions:
Nail	Good switch
Aluminum	Good switch
Pipe cleaner	Good switch
Piece of cloth	No
Glass test tube	No

3. In the table below, write the name of each object your team is going to test.
4. In the second column, write your prediction on whether you think each object is a **conductor** or an **insulator**.
5. Test each object and record your results in the third column. Write “**good switch**” if the object made a good switch; write “**no**” if it did not make a good switch.

Object	Prediction: Conductor or Insulator?	Test Results: Is this a good switch?
Example possible objects: Nail Aluminum Piece of cloth	Example possible predictions: Conductor Conductor Insulator	Example results: Good switch Good switch no

6. Observations. Why did some objects you tested make good switches while others did not?

The objects that were conductors made good switches.

The objects that were insulators did not make good switches.

7. How could you tell when an object made a good switch?

The light bulb would light up.

8. What are some qualities of a good switch?

A good switch is a conductor.

Metal makes a very good switch.

A good switch closes the circuit and lights the light bulb.