Name:

Test the following objects to determine if they are CONDUCTORS or INSULATORS.



Apparatus:

Light bulb Light bulb holder Battery

Alligator clips Rubber band

Items to be tested:

Penny Styrofoam Cork Paper clip

Rubber Aluminum foil Toothpick

Method:

Step 1: Place the rubber band around the battery.

Step 2: Attach one alligator clip to each end of the battery.

Step 3: Screw the bulb into the light bulb holder.

Step 4: Connect the other ends of the alligator clips to the metal connections on the bulb holder and turn on the light.

Step 5: Add an extra alligator clip to the circuit.

Step 6: Insert the objects to be tested between the two open ends of the alligator clips. By doing this you are closing the loop again and completing the circuit. If the light lights up that means electrons are flowing and the object conducts electricity. If the object is an insulator and doesn't conduct electricity the light won't turn on.

Make sure however that the two alligator clips don't touch each other otherwise the light will light up and give you an incorrect reading for an object.

Record your results in the table below:

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Item tested	Conductors or Insulators	
Penny		
Styrofoam		
Cork		
Paper clip		
Rubber		
Aluminum foil		
Toothpick		

How about liquids?
Are they good conductors?

