

Name _____ Date _____

Investigation: Conductivity Worksheet

1. Currently, there is an open circuit on your breadboard. In this investigation, you will be using the materials at the top of the breadboard to explore the conductivity of various materials.
2. Close the circuit with the pencil. Write your observations below. Take a photo of your circuit.

3. Remove the pencil from the circuit. Now, close the circuit with the gummy candy. Write your observations below. Take a photo of your circuit.

4. Remove the gummy candy from the circuit. Now, close the circuit with the penny. Write your observations below. Take a photo of your circuit.

5. Remove the penny from the circuit. Now, close the circuit with the rubber tubing. Write your observations below. Take a photo of your circuit.

6. Remove the rubber tubing from the circuit. Now, close the circuit with the .25mm x 1 cm Copper wire. Write your observations below. Take a photo of your circuit.

7. What conclusions can you draw about the conductivity (ability of a material to allow electricity to flow through it) of each of these materials?