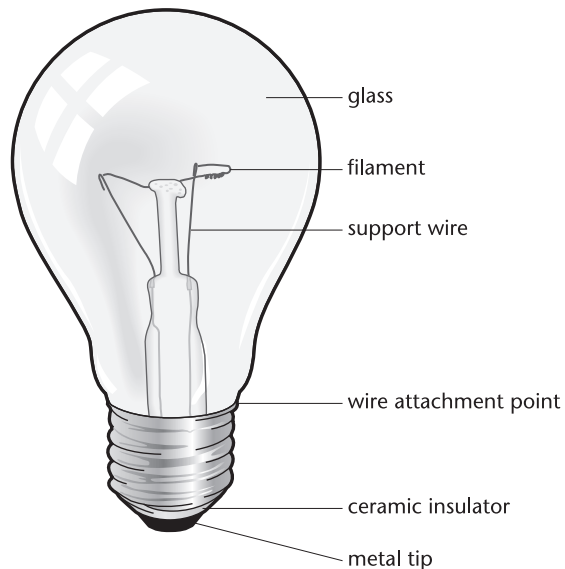


Conductors and Insulators

Current Electricity Cluster (Lesson 6)

Directions:

1. Look at the picture of a light bulb.
2. Label the parts and materials that work as conductors. Label the parts and materials that work as insulators.



TEACHER NOTE:

Use this assessment after teaching Lesson 6.

EVALUATION GUIDELINES:

When evaluating student answers, consider whether they include the following elements in their written explanations:

- Wires, wire attachment point, metal tip, filament—labeled as conductors
- Ceramic base, glass—labeled as insulators
- Advanced responses might identify the materials as metal, glass, or ceramic.

Design Safe Gloves for an Electrician

Current Electricity Cluster (Lesson 6)

TEACHER NOTE:

This is a reproduction of the science notebook page students will complete as part of Lesson 6.

1. What material would you choose?

Students should choose materials that do not easily conduct electricity. Possible answers include:

- Leather
- Plastic
- Vinyl
- Rubber
- Cloth
- Wood

2. Why would this material make the gloves safe?

The material is not a good conductor of electricity.

3. What problems might come from making or wearing gloves from this material?

EVALUATION GUIDELINES:

When evaluating student answers, note if they consider whether designs that are best for reasons of safety may not be best for reasons of cost, ease of use, or appearance.