

Compare Elements

Procedure

- 1. Collaborate** Work with a partner. Gather the materials listed. Record your observations in the chart below. **Safety:** Wear goggles for this investigation.

Element	Properties
Copper	
Aluminum	
Carbon	
Sulfur	

- 2. Observe** Look at the samples of copper, aluminum, carbon, and sulfur. Test each sample to find some of its properties. You may observe it closely, feel it, and rub it lightly on a piece of paper. Try to find properties that two or more of the samples have in common.
- 3. Record Data** As you examine each element, record in your chart the properties you observe. For example, is the element hard or soft? Stiff or bendable? Dull or shiny?
- 4. Classify** How would you classify the elements into two groups? In the space below, list and describe the two groups.

Conclusion

Write the answers to the questions below.

- 1. Analyze Data** Compare your observations of the elements. How are the copper and aluminum similar? How are carbon and sulfur similar?

- 2. Infer** Based on your observations, what do you think might be some properties of metals and some properties of nonmetals?

Investigate More!

Design an Experiment How would you compare the ability of each element to conduct electricity? Make a plan. Choose a graph, diagram, or chart to display your results.

