



# Properties of Minerals

## Procedure

1. Use the chart to record your data.
2. **Collaborate** Work with your group. Number the pockets of the egg carton from 1 to 10. Put a mineral labeled with the same number into each pocket. A mineral is a solid material that has a definite chemical makeup.
3. **Observe** Look at each mineral. Decide if it shines like a metal, like glass, or is dull. **Luster** is the way a mineral shines. In the *Luster* column of your chart, write *metallic*, *glass*, or *dull*.

Mineral Sample	Luster	Color	Streak	
			Prediction	Results
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

4. Record the color of each mineral.
5. **Predict** Scratch the tile with three of the minerals. The powder left on the tile is the mineral's **streak**. Predict the streak color for the rest of the minerals. Record the results. **Safety:** Wear goggles.

## Conclusion

1. **Compare** For each mineral, were the colors of the mineral and its streak the same?

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2. **Classify** Sort the minerals into two groups—metallic or nonmetallic—based on the property of luster. Glassy or dull minerals have nonmetallic luster.

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### Experiment

Which minerals can be scratched with a fingernail? Predict and then test your ideas. Rub the mineral where you scratched it. A scratch will not rub off. Record your results.

### Guided Inquiry