

## 8<sup>th</sup> Grade Physical Science

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To determine if the coin is pure silver:

1. find the density of pure silver
2. find the density of the coin

If the two densities match, you have a coin made of pure silver.

- The density of one substance is usually different than another substance; therefore, density can be used to identify a substance.

### **Characteristic Properties**

- a set of properties that is unique to a particular type of matter
- can be used to identify a substance
  - density
  - melting point/freezing point
  - hardness

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### **Chemical Properties**

- describe matter based on its ability to become a new substance
  - new substance would have all new properties
- to determine chemical properties you need to see how the matter interacts with other matter
  - reacts to form a new substance
  - flammability
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