

Name: \_\_\_\_\_

## Intervention 1.1 AB

(Chemical/Physical Properties, Qualitative/Quantitative)

# Physical and Chemical Properties

Elements, substances, and compounds have both physical and chemical properties. **Physical properties** are those that can be described using the senses and can be determined without destroying the object. Color, mass, density, and odor are examples of physical properties. **Chemical properties** describe how a substance reacts with another substance and the original is changed into something else. Classify each term in the word box as a physical or chemical property.

reacts with base to form water  
supports combustion  
boiling point  
neutralizes an acid  
reacts with water to form gas

density  
taste  
neutralizes a base  
reacts with an acid  
color

flammability  
melting point  
luster  
reacts to oxygen

solubility  
hardness  
odor  
electromotive

### Physical Property

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### Chemical Property

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Using the pictures below, list 3 physical properties and 3 chemical properties



Physical Properties:

- 1.
- 2.
- 3.

Chemical Properties:

- 1.
- 2.
- 3.

## Qualitative vs. Quantitative

Determine which of the following statements are qualitative and which are quantitative.

1. \_\_\_\_\_ The cup had a mass of 454 grams.
2. \_\_\_\_\_ The temperature outside is 25°C.
3. \_\_\_\_\_ It is warm outside.
4. \_\_\_\_\_ The tree is 30 feet tall.
5. \_\_\_\_\_ The building has 25 stories.
6. \_\_\_\_\_ The building is taller than the tree.
7. \_\_\_\_\_ The sidewalk is long.
8. \_\_\_\_\_ The sidewalk is 100 meters long.
9. \_\_\_\_\_ The race was over quickly.
10. \_\_\_\_\_ The race was over in 10 minutes.