

Name _____ Date _____



PHYSICAL VS CHEMICAL PROPERTIES QUIZ

1. Differentiate between physical and chemical properties.

2. Classify the following as physical or chemical property by putting a tick in the appropriate box

Property	Physical Property	Chemical Property
Denser than water		
Supports combustion		
Tastes bitter		
Reacts with metals		
Doesn't dissolve in water		
Can neutralize an acid		
The substance smells		
The luster is bright		
Can be bent without breaking		
Produces hydrogen gas when heated		
A white substance		

3. Which of the following is a chemical property? _____

- A. Color
- B. State of matter
- C. Boiling point
- D. Corrosiveness
- E. Hardness

4. Which of the following is a physical property? _____

- A. Flammability
- B. Reactivity
- C. Size
- D. Decomposition

5. Which of the following statements describes a chemical property?

- A. Copper objects turn green when exposed to moist air for a prolonged period.
- B. Aluminum metal is a solid at room temperature.
- C. Potassium metal reacts vigorously with water to form potassium hydroxide solution and hydrogen gas.
- D. The density of Lithium metal is 0.534g/ml at 20°C.

6. Which of the following statements is true? _____

- A. Being a liquid at room temperature is a chemical property of Mercury.
- B. Resisting change when exposed to air for a prolonged period is a chemical property of Gold.
- C. Noble gases reacting less with the environment is a physical property of noble gases.
- D. Having a reddish-brown color is a chemical property of Copper.

7. Circle the choice that best completes the statement or answers the question.

- (Physical or Chemical or both) properties describe matter.
- (Physical or Chemical or both) properties of a substance can be easily observed.
- (Physical or Chemical or both) properties usually describe how a substance reacts.
- (Physical or Chemical or both) properties are not as easy to observe.
- (Physical or Chemical or both) properties can be used to identify substances.

b) By putting a tick in the appropriate box, identify if the following are chemical or physical properties:

Property Description	Physical Property	Chemical Property
Oxygen is odorless and colorless		
Copper turns green when exposed to the environment		
The piece of metal is magnetic		
Diamonds are a very hard substance		
The piece of metal is magnetic		
The tree is 8 meters high		
Sodium reacts very easily with other elements.		
A student's shirt suddenly bursts into flames.		
The color of the ball is red		
Iron reacts with oxygen and forms rust		
The boiling point of water is 100 degrees C		
The silver spoons tarnished and turned dark		
Argon is not very reactive		