Name: Date: Score: / 8

Properties of Substances: Learn and Practice

Describe it, or watch it react?

Read each question. Circle the best answer.

💡 Physical and Chemical Properties

- A physical property can be observed without changing the substance, like color or melting point.
- A chemical property describes how a substance reacts to form new substances, like burning.
- Each pure substance has its own set of properties that help identify it.
- iron rusts in damp air: chemical property

1 Why can melting point help identify a substance?

A. It depends on the shape

B. Melting makes a new substance

C. All substances melt the same way

D. Each pure substance has its own value

2 Water boils at 100 degrees Celsius at sea level. What kind of property is this?

A. Physical property B. A mixture C. A reaction

D. Chemical property

3 Which word describes how easily a substance dissolves?

A. Solubility B. Flammability C. Malleability

D. Density

4 🔥 Which is a chemical property?

A. Color B. Density C. Boiling point

D. Flammability

5 Which is a physical property?

A. Flammability B. Reacting with acid C. Color

D. Ability to rust

6 Paper can burn. What type of property is this?

A. Physical property B. A unit of measure

C. Chemical property D. A state of matter

7 Which test checks a chemical property?

A. Measuring its mass B. Checking its color

C. Finding its density

D. Seeing if it burns in a flame

8 Silver slowly turns dark when left in air. This shows which property?

A. Hardness B. Density C. Conductivity

D. Reacting with substances in air

✏️ Explain it! Write two facts you learned about properties of substances.

ANSWER KEY

Properties of Substances: Learn and Practice (answers)

Describe it, or watch it react?

Read each question. Circle the best answer.

1 Why can melting point help identify a substance?

A. It depends on the shape

B. Melting makes a new substance

C. All substances melt the same way

D. Each pure substance has its own value

Every pure substance melts at its own temperature, like a fingerprint.

2 Water boils at 100 degrees Celsius at sea level. What kind of property is this?

A. Physical property B. A mixture

C. A reaction D. Chemical property

Boiling changes the state, but it is still water. That makes boiling point physical.

3 Which word describes how easily a substance dissolves?

A. Solubility B. Flammability C. Malleability

D. Density

Solubility tells how much of a substance can dissolve in a liquid like water.

4 🔥 Which is a chemical property?

A. Color B. Density C. Boiling point

D. Flammability

Flammability describes whether a substance can burn and form new substances.

5 Which is a physical property?

A. Flammability B. Reacting with acid **C. Color**

D. Ability to rust

You can see color without changing the substance, so it is a physical property.

6 Paper can burn. What type of property is this?

A. Physical property B. A unit of measure

C. Chemical property D. A state of matter

Burning turns paper into ash and gases, new substances, so it is a chemical property.

7 Which test checks a chemical property?

A. Measuring its mass B. Checking its color

C. Finding its density

D. Seeing if it burns in a flame

Testing whether something burns checks if it can react, which is chemical.

8 Silver slowly turns dark when left in air. This shows which property?

A. Hardness B. Density C. Conductivity

D. Reacting with substances in air

The dark layer is a new substance, so tarnishing is a chemical property.