Name: Date: Score: / 8

Material Detectives: Learn and Practice

Identify materials by their properties

Read each question. Circle the best answer.

💡 Properties of Materials

- Properties are features we can observe or measure.
- Color, hardness, magnetism, conductivity and solubility are all properties.
- We use properties to tell materials apart.
- shiny and pulled by a magnet: likely iron or steel

1 ✨ What does reflectivity describe?

A. How cold it is B. How much light bounces off

C. How it smells D. How heavy it is

2 Which property tells us if a material dissolves in water?

A. Color B. Hardness C. Magnetism

D. Solubility

3 🥄 Why is wood a good choice for a cooking spoon?

A. It dissolves B. It is clear

C. It is a poor heat conductor D. It is magnetic

4 🔩 A nail sticks to a magnet. Which material could it be?

A. Copper B. Brass C. Aluminium D. Steel

5 🧲 Which material is attracted to a magnet?

A. Iron B. Wood C. Plastic D. Glass

6 Which is a property of a material?

A. Its price B. Its name tag C. Hardness

D. Its owner

7 🪟 Which material is clear, so light passes through it?

A. Brick B. Glass C. Steel D. Wood

8 Two white powders look the same. Which is a safe test to tell them apart?

A. Taste them B. Rub them on your eyes

C. See which dissolves in water

D. Sniff them deeply

✏️ Explain it! Write two facts you learned about material detectives.

ANSWER KEY

Material Detectives: Learn and Practice (answers)

Identify materials by their properties

Read each question. Circle the best answer.

1 ✨ What does reflectivity describe?

A. How cold it is **B. How much light bounces off**

C. How it smells D. How heavy it is

Shiny materials have high reflectivity. They bounce back lots of light.

2 Which property tells us if a material dissolves in water?

A. Color B. Hardness C. Magnetism

D. Solubility

Solubility describes whether something can dissolve, like sugar does in water.

3 🥄 Why is wood a good choice for a cooking spoon?

A. It dissolves B. It is clear

C. It is a poor heat conductor D. It is magnetic

Wood does not carry heat well, so the spoon stays cool enough to hold.

4 🔩 A nail sticks to a magnet. Which material could it be?

A. Copper B. Brass C. Aluminium **D. Steel**

Steel contains iron, so it is magnetic. Copper, aluminium and brass are not.

5 🧲 Which material is attracted to a magnet?

A. Iron B. Wood C. Plastic D. Glass

Iron is a magnetic metal. Wood, glass and plastic are not pulled by magnets.

6 Which is a property of a material?

A. Its price B. Its name tag **C. Hardness**

D. Its owner

Hardness is something you can test about the material itself. That makes it a property.

7 🪟 Which material is clear, so light passes through it?

A. Brick **B. Glass** C. Steel D. Wood

Glass lets light pass right through, which is why windows are made from it.

8 Two white powders look the same. Which is a safe test to tell them apart?

A. Taste them B. Rub them on your eyes

C. See which dissolves in water

D. Sniff them deeply

Never taste or sniff unknown powders. Testing solubility is safe and gives useful evidence.