

Quiz: Physical Properties of Materials

Choose the best answer.

1. What is the ability of a material to resist being scratched or changing shape?

- A. Elasticity
- B. Hardness
- C. Malleability
- D. Brittleness

2. Which material is the hardest natural substance?

- A. Talc
- B. Glass
- C. Diamond
- D. Gold

3. What physical property describes a solid's tendency to break easily?

- A. Ductility
- B. Brittleness
- C. Flexibility
- D. Hardness

4. What is malleability?

- A. Ability to stretch into wires
- B. Ability to reflect light
- C. Ability to return to shape
- D. Ability to be hammered into thin sheets

5. A rubber band returns to its original shape after stretching. This shows:

- A. Flexibility
- B. Malleability
- C. Elasticity
- D. Luster

6. Which of the following is an example of a flexible material?

- A. Glass
- B. Rubber slippers
- C. Wire
- D. Marbles

7. What is ductility?

- A. Ability to bend without breaking
- B. Ability to stretch into thin wires
- C. Ability to bounce back
- D. Ability to resist scratching

8. Which property allows materials to shine or reflect light?

- A. Brittleness
- B. Ductility
- C. Luster
- D. Flexibility

9. A gold ring being molded into different shapes is an example of:

- A. Flexibility
- B. Malleability
- C. Elasticity
- D. Brittleness

10. Which of the following best shows elasticity?

- A. Gold molded into jewelry
- B. Wire stretched into lines
- C. Balloons returning to shape after deflation
- D. Shoes bending while walking

B. True or False (5 points)

Write True or False.

11. Talc is the hardest natural material.

12. Brittleness means a material bends without breaking.

13. Copper and silver are good examples of ductile materials.

14. Malleable materials can be hammered into thin sheets.

15. A mirror reflects light because of its luster.

C. Short Answer (5 points)

Answer the following in your own words.

16. What is one example of a hard material mentioned in the lesson?

17. What happens to brittle materials when they are hit by a hard object?

18. Name one example of a flexible object.

19. Why is gold commonly used in fine jewelry?

20. Give an example of a lustrous material.