

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.