

Intro to Materials Science

Materials Science · Practice Test · 20 Questions

1. Which material is best known for being flexible and stretchy?

- A) Glass
- B) Rubber
- C) Steel
- D) Ceramic

2. Which of these materials is a natural substance harvested from trees?

- A) Plastic
- B) Nylon
- C) Wood
- D) Polyester

3. What property describes a material's ability to be hammered into thin sheets without breaking?

- A) Malleability
- B) Transparency
- C) Hardness
- D) Magnetism

4. Which material is created by melting sand at very high temperatures?

- A) Plastic
- B) Glass
- C) Concrete
- D) Rubber

5. Which of these is a magnetic metal?

- A) Gold
- B) Aluminum
- C) Iron
- D) Copper

6. What is the primary material used to make traditional paper?

- A) Cotton
- B) Wood pulp
- C) Plastic film
- D) Metal foil

7. Which type of material is usually a poor conductor of electricity?

- A) Copper
- B) Iron
- C) Aluminum
- D) Plastic

8. What is the hardest natural material found on Earth?

- A) Diamond
- B) Graphite
- C) Quartz
- D) Talc

9. Which material is derived from petroleum and can be molded into many shapes?

- A) Steel
- B) Ceramic
- C) Plastic
- D) Glass

10. Which metal is commonly used for electrical wiring because it is a great conductor?

- A) Lead
- B) Copper
- C) Zinc
- D) Iron

11. What does the term 'brittle' describe about a material?

- A) It is very soft
- B) It breaks easily when hit
- C) It stretches easily
- D) It conducts heat well

12. Which material is famously known for being resistant to rust and used in cutlery?

- A) Stainless steel
- B) Raw iron
- C) Lead
- D) Tin

13. Which of these is a synthetic fabric created by humans?

- A) Silk
- B) Cotton
- C) Wool
- D) Polyester

14. What is the material used to make the core of a 'lead' pencil?

- A) Graphite
- B) Coal
- C) Steel
- D) Lead

15. Which of these materials is porous and can absorb water?

- A) Glass
- B) Plastic
- C) Sponge
- D) Metal

16. What type of material is concrete classified as?

- A) A metal
- B) A ceramic
- C) A composite
- D) A plastic

17. Which gas is used to inflate balloons so they float in the air?

- A) Oxygen
- B) Nitrogen
- C) Helium
- D) Carbon dioxide

18. What is the main characteristic of a transparent material?

- A) It reflects all light
- B) It allows light to pass through it
- C) It blocks all light
- D) It changes the color of light

19. Which metal is the lightest and is often used in soda cans?

- A) Lead
- B) Iron
- C) Aluminum
- D) Mercury

20. What term describes how a material feels to the touch, such as smooth or rough?

- A) Texture
- B) Density
- C) Opacity
- D) Luster