

Intro to Materials Science

Materials Science · Answer Key · 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