

1. What is matter defined as in the text?
  - A. Anything that has mass and occupies space
  - B. Only visible objects like rocks and metals
  - C. Energy without physical substance
  - D. A form of radiation
2. Which of the following is NOT mentioned as a fundamental particle of an atom?
  - A. Proton
  - B. Neutron
  - C. Photon
  - D. Electron
3. What determines the properties of a substance made from atoms?
  - A. The size of the container holding the matter
  - B. The arrangement of protons, neutrons, and electrons within the atom
  - C. The color of the matter
  - D. The temperature outside
4. In which state of matter are particles closely packed and vibrate in place?
  - A. Solid
  - B. Liquid
  - C. Gas
  - D. Plasma
5. Which of the following is NOT a characteristic of solids?
  - A. Fixed shape
  - B. Constant volume
  - C. Free movement of particles
  - D. Closely packed particles
6. What allows liquids to flow and take the shape of their container?
  - A. Strong forces between particles
  - B. Particles moving freely with weak forces
  - C. Particles that are closely packed but can move around each other
  - D. Particles that do not interact at all
7. Which state of matter is described as having particles that spread out and move freely?
  - A. Solid
  - B. Liquid
  - C. Gas
  - D. Plasma
8. Which of the following is an example of a gas mentioned in the text?
  - A. Water
  - B. Rock
  - C. Oxygen
  - D. Mercury
9. What is plasma mentioned as occurring at?
  - A. Extremely high temperatures
  - B. Standard room temperature
  - C. Temperatures near absolute zero
  - D. Only in laboratory conditions

10. Which of the following is a physical property of matter?
- A. Freezing point
  - B. Reactivity with acids
  - C. Ability to form compounds
  - D. Flammability
11. What is matter defined as at its most basic level?
- A. Anything that has mass and occupies space
  - B. A form of energy that cannot be seen
  - C. Only living organisms and their components
  - D. A type of wave that travels through the universe
12. Which of the following is NOT a fundamental particle that makes up an atom?
- A. Proton
  - B. Neutron
  - C. Quark
  - D. Electron
13. What determines the properties of a substance made from atoms?
- A. The arrangement of protons, neutrons, and electrons within the atom
  - B. The color of the atom
  - C. The speed of the atom in space
  - D. The temperature outside the atom
14. In which state of matter are particles closely packed but able to move around each other?
- A. Solid
  - B. Liquid
  - C. Gas
  - D. Plasma
15. What is a key characteristic of solids?
- A. They expand to fill their container
  - B. They have a fixed shape and volume
  - C. They move freely without any forces between particles
  - D. They are only found in extreme temperatures
16. Which of the following is an example of a liquid?
- A. Rock
  - B. Air
  - C. Water
  - D. Metal
17. What state of matter occurs at extremely high temperatures?
- A. Solid
  - B. Liquid
  - C. Gas
  - D. Plasma
18. Which of the following is a physical property of matter?
- A. Reactivity with acids
  - B. Ability to rust
  - C. Density
  - D. Flammability

19. What describes how matter interacts with other substances in chemical reactions?

- A. Physical properties
- B. Chemical properties
- C. States of matter
- D. Atomic structure

20. Which state of matter is characterized by particles that are spread out and move freely?

- A. Solid
- B. Liquid
- C. Gas
- D. Plasma

21. What is matter defined as at its most basic level?

- A. Anything that has mass and occupies space
- B. Only celestial bodies like stars and planets
- C. The energy that exists in the universe
- D. A form of light that can be seen

22. Which of the following is NOT considered a fundamental particle of an atom?

- A. Proton
- B. Neutron
- C. Photon
- D. Electron

23. What determines the properties of a substance formed by atoms?

- A. The number of atoms in the substance
- B. The arrangement of protons, neutrons, and electrons within the atom
- C. The color of the substance
- D. The temperature at which the substance is formed

24. In which state of matter are particles closely packed and vibrate in place?

- A. Solid
- B. Liquid
- C. Gas
- D. Plasma

25. What allows liquids to flow and take the shape of their container?

- A. Strong forces between particles
- B. Particles moving freely with weak forces
- C. Particles with enough energy to move around each other
- D. Particles that are spread far apart

26. Which of the following is an example of a gas?

- A. Ice
- B. Mercury
- C. Oxygen
- D. Rock

27. What is plasma?

- A. A state of matter that occurs at extremely high temperatures
- B. A type of liquid that conducts electricity
- C. A solid that can change shape under pressure
- D. A form of energy that does not occupy space

28. Which of the following is a physical property of matter?
- A. The ability to react with acid
  - B. The boiling point of a substance
  - C. The flammability of a substance
  - D. The ability to rust
29. What is the state of matter that occurs at temperatures near absolute zero?
- A. Solid
  - B. Liquid
  - C. Gas
  - D. Bose-Einstein condensate
30. How does matter behave in a gas state compared to a solid state?
- A. Gases have a fixed shape and volume, while solids expand freely
  - B. Gases have particles that are spread out and move freely, while solids have closely packed particles
  - C. Gases are only found in celestial bodies, while solids are found on Earth
  - D. Gases have strong forces between particles, while solids have weak forces
31. What is the most basic definition of matter?
- A. Anything that has mass and occupies space
  - B. Energy that can be seen or touched
  - C. A form of light or radiation
  - D. Only living organisms and plants
32. Which of the following are the basic building blocks of all substances?
- A. Molecules
  - B. Atoms
  - C. Protons
  - D. Neutrons
33. What are the three primary particles that make up an atom?
- A. Protons, neutrons, and electrons
  - B. Quarks, leptons, and bosons
  - C. Molecules, ions, and compounds
  - D. Photons, neutrons, and neutrinos
34. Which state of matter has particles that are closely packed but can move around each other?
- A. Solid
  - B. Liquid
  - C. Gas
  - D. Plasma
35. What allows gases to expand and fill their container?
- A. Strong forces between particles and fixed positions
  - B. Closely packed particles with limited movement
  - C. Spread-out particles with weak forces between them
  - D. Particles that are frozen in place
36. Which of the following is NOT a classical state of matter?
- A. Solid
  - B. Liquid
  - C. Gas
  - D. Bose-Einstein condensate

37. What is an example of a physical property of matter?
- A. Flammability
  - B. Density
  - C. Reactivity with acids
  - D. Ability to rust
38. Which of the following describes a chemical property of matter?
- A. Color
  - B. Mass
  - C. Boiling point
  - D. Ability to undergo combustion
39. At what temperature does plasma typically occur?
- A. Near absolute zero
  - B. Extremely high temperatures
  - C. Room temperature
  - D. Below freezing point
40. Which state of matter has particles that vibrate in place and maintain a fixed shape?
- A. Liquid
  - B. Gas
  - C. Solid
  - D. Plasma
41. What is the most basic definition of matter?
- A. Anything that has mass and occupies space
  - B. The energy that powers the universe
  - C. A form of light or radiation
  - D. An abstract concept without physical presence
42. Which of the following is NOT considered a fundamental particle of an atom?
- A. Proton
  - B. Neutron
  - C. Photon
  - D. Electron
43. In which state of matter are particles closely packed and vibrate in place?
- A. Solid
  - B. Liquid
  - C. Gas
  - D. Plasma
44. What allows liquids to flow and take the shape of their container?
- A. Particles moving freely around each other
  - B. Particles being far apart with weak forces
  - C. Particles vibrating in fixed positions
  - D. Particles forming a rigid lattice
45. Which state of matter can expand to fill the space of its container?
- A. Solid
  - B. Liquid
  - C. Gas
  - D. Plasma

46. What is plasma primarily associated with?
- A. Extremely high temperatures
  - B. Absolute zero conditions
  - C. Fixed crystalline structures
  - D. Low-pressure environments
47. Which of the following is a chemical property of matter?
- A. Density
  - B. Color
  - C. Freezing point
  - D. Reactivity with acids
48. What is the freezing point of water at standard atmospheric pressure?
- A.  $-10^{\circ}\text{C}$
  - B.  $0^{\circ}\text{C}$
  - C.  $20^{\circ}\text{C}$
  - D.  $100^{\circ}\text{C}$
49. Which state of matter occurs at temperatures near absolute zero?
- A. Solid
  - B. Liquid
  - C. Gas
  - D. Bose-Einstein condensate
50. What determines the properties of a substance made from atoms?
- A. The arrangement of protons, neutrons, and electrons
  - B. The temperature of the universe
  - C. The color of the atoms
  - D. The speed of light