

1. What is the most basic definition of matter?
 - A. Anything that has mass and occupies space
 - B. A form of energy that can be seen
 - C. Substances that only exist in gases
 - D. Non-physical entities like thoughts
2. Which of the following is NOT considered a fundamental particle of an atom?
 - A. Proton
 - B. Neutron
 - C. Photon
 - D. Electron
3. What determines the properties of a substance formed by an atom?
 - A. The color of the atom
 - B. The arrangement of protons, neutrons, and electrons
 - C. The temperature outside the atom
 - D. The size of the atom
4. In which state of matter are particles closely packed but can move around each other?
 - A. Solid
 - B. Liquid
 - C. Gas
 - D. Plasma
5. Which state of matter has a fixed shape and volume?
 - A. Liquid
 - B. Gas
 - C. Solid
 - D. Plasma
6. What is the state of matter that occurs at extremely high temperatures?
 - A. Solid
 - B. Liquid
 - C. Gas
 - D. Plasma
7. Which of the following is a physical property of matter?
 - A. Reactivity with acids
 - B. Boiling point
 - C. Combustibility
 - D. Ability to rust
8. What is the state of matter that occurs at temperatures near absolute zero?
 - A. Solid
 - B. Liquid
 - C. Gas
 - D. Bose-Einstein condensate
9. Which of these is an example of a liquid?
 - A. Rock
 - B. Air
 - C. Water
 - D. Ice

10. What type of property describes how matter interacts with other substances?
- A. Physical property
 - B. Chemical property
 - C. Thermal property
 - D. Optical property
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 celestial bodies like stars and planets
 - D. Substances that exist solely in liquid form
12. Which of the following is NOT a fundamental particle that makes up an atom?
- A. Proton
 - B. Neutron
 - C. Photon
 - D. Electron
13. In which state of matter are particles closely packed but can move around each other?
- A. Solid
 - B. Liquid
 - C. Gas
 - D. Plasma
14. What determines the properties of a substance formed by atoms?
- A. The arrangement of protons, neutrons, and electrons
 - B. The color of the atoms
 - C. The size of the atoms
 - D. The temperature of the environment
15. Which of the following is an example of a solid?
- A. Air
 - B. Water
 - C. Ice
 - D. Oxygen
16. What allows gases to expand and fill their container?
- A. Strong forces between particles
 - B. Particles moving freely with weak forces
 - C. Particles vibrating in place
 - D. Particles arranged in a fixed pattern
17. Which exotic state of matter occurs at extremely high temperatures?
- A. Bose-Einstein condensate
 - B. Plasma
 - C. Superfluid
 - D. Quark-gluon plasma
18. Which of the following is a physical property of matter?
- A. Flammability
 - B. Density
 - C. Reactivity
 - D. Acidity

19. What is the boiling point of water at standard atmospheric pressure?
- A. -100°C
 - B. 0°C
 - C. 100°C
 - D. 200°C
20. Which state of matter is characterized by particles that spread out and move freely?
- A. Solid
 - B. Liquid
 - C. Gas
 - D. Plasma
21. What is matter primarily defined as?
- A. Anything that has mass and occupies space
 - B. A form of energy
 - C. The substance of living things only
 - D. A type of wave
22. Which of the following is NOT one of the fundamental particles that make up an atom?
- A. Proton
 - B. Neutron
 - C. Photon
 - D. Electron
23. What determines the properties of a substance formed by atoms?
- A. The arrangement of protons, neutrons, and electrons
 - B. The color of the atoms
 - C. The temperature of the atoms
 - D. The size of the atoms
24. In solids, how are the particles arranged?
- A. Closely packed and vibrate in place
 - B. Far apart and move randomly
 - C. In a fixed grid but can slide past each other
 - D. Only found in crystalline structures
25. Which state of matter allows particles to move freely and fill the container's space?
- A. Solid
 - B. Liquid
 - C. Gas
 - D. Plasma
26. What is the freezing point of water at standard atmospheric pressure?
- A. 0°C
 - B. -10°C
 - C. 100°C
 - D. 200°C
27. Which of the following is an example of a liquid?
- A. Air
 - B. Mercury
 - C. Rock
 - D. Ice

28. What is plasma primarily associated with?
- A. Extremely high temperatures
 - B. Near absolute zero temperatures
 - C. Only found in stars
 - D. A state of matter with no particles
29. Which of the following is a chemical property of matter?
- A. Density
 - B. Color
 - C. Freezing point
 - D. Reactivity with other substances
30. What is a Bose-Einstein condensate?
- A. A state of matter occurring at extremely high temperatures
 - B. A state of matter occurring at temperatures near absolute zero
 - C. A type of liquid with no boiling point
 - D. A solid with no fixed shape
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 celestial bodies like stars and planets
32. Which of the following is NOT considered a fundamental particle of an atom?
- A. Proton
 - B. Neutron
 - C. Photon
 - D. Electron
33. What determines the properties of a substance made of atoms?
- A. The arrangement of protons, neutrons, and electrons within the atom
 - B. The color of the atom
 - C. The temperature of the atom
 - D. The size of the atom
34. In which state of matter are particles closely packed and vibrate in place?
- A. Solid
 - B. Liquid
 - C. Gas
 - D. Plasma
35. What is a characteristic of liquids that distinguishes them from solids?
- A. They flow and take the shape of their container
 - B. They have a fixed shape and volume
 - C. They expand to fill any space
 - D. They are only found in extreme temperatures
36. Which state of matter allows particles to move freely and spread out?
- A. Solid
 - B. Liquid
 - C. Gas
 - D. Bose-Einstein condensate

37. What is plasma?
- A. A state of matter that occurs at extremely high temperatures
 - B. A type of chemical reaction
 - C. A form of energy that does not occupy space
 - D. A liquid that cannot be frozen
38. Which of the following is a physical property of matter?
- A. Density
 - B. Flammability
 - C. Reactivity
 - D. Acidity
39. What is an example of a chemical property of matter?
- A. Freezing point
 - B. Color
 - C. Ability to rust
 - D. Volume
40. At what temperature does Bose-Einstein condensate occur?
- A. Extremely high temperatures
 - B. Near absolute zero
 - C. Standard room temperature
 - D. Only in vacuum conditions
41. What is matter defined as?
- A. Anything that has mass and occupies space
 - B. A form of energy that cannot be seen
 - C. The substance that makes up only celestial bodies
 - D. A theoretical concept with no physical existence
42. Which of the following is NOT a fundamental particle that makes up atoms?
- A. Protons
 - B. Neutrons
 - C. Photons
 - D. Electrons
43. What determines the properties of a substance formed by atoms?
- A. The arrangement of protons, neutrons, and electrons
 - B. The temperature of the environment
 - C. The color of the substance
 - D. The size of the container holding the substance
44. In solids, how are the particles arranged?
- A. Closely packed and vibrate in place
 - B. Spread out and move freely
 - C. Only found in random motion
 - D. Floating independently without interaction
45. Which state of matter allows particles to flow and take the shape of their container?
- A. Solid
 - B. Liquid
 - C. Gas
 - D. Plasma

46. What is the primary difference between liquids and gases?
- A. Liquids have a fixed volume while gases expand to fill their container
 - B. Gases are denser than liquids
 - C. Liquids have particles that move faster than gases
 - D. Gases have a fixed shape while liquids do not
47. Which exotic state of matter occurs at extremely high temperatures?
- A. Plasma
 - B. Bose-Einstein condensate
 - C. Superfluid
 - D. Neutron star matter
48. What is an example of a physical property of matter?
- A. Freezing point
 - B. Reactivity with acid
 - C. Ability to rust
 - D. Flammability
49. Which of the following is a chemical property of matter?
- A. Density
 - B. Color
 - C. Ability to burn
 - D. Melting point
50. Which state of matter is characterized by particles that move freely and are spread out?
- A. Solid
 - B. Liquid
 - C. Gas
 - D. Plasma