

1. What is matter defined as in the text?
 - A. Anything that has mass and occupies space
 - B. A form of energy that does not have mass
 - C. Only celestial bodies like stars and planets
 - D. A theoretical concept without physical existence
2. Which of the following is NOT mentioned as a fundamental particle of an atom in the text?
 - A. Protons
 - B. Neutrons
 - C. Photons
 - D. Electrons
3. What determines the properties of a substance formed by an atom?
 - A. The size of the atom
 - B. The arrangement of protons, neutrons, and electrons
 - C. The color of the atom
 - D. The speed at which the atom moves
4. In which state of matter are particles closely packed but able to move around each other?
 - A. Solid
 - B. Liquid
 - C. Gas
 - D. Plasma
5. What is the primary characteristic of a solid as described in the text?
 - A. Particles move freely and spread out
 - B. Particles are closely packed and vibrate in place
 - C. Particles have no fixed arrangement
 - D. Particles are only found in celestial bodies
6. Which of the following is an example of a gas mentioned in the text?
 - A. Ice
 - B. Oxygen
 - C. Mercury
 - D. Rocks
7. What is plasma, according to the text?
 - A. A state of matter at extremely high temperatures
 - B. A type of chemical reaction
 - C. A liquid with no boiling point
 - D. A solid that can change shape
8. Which of the following is a physical property of matter?
 - A. Freezing point
 - B. Reactivity with acids
 - C. Formation of new compounds
 - D. Combustion ability
9. What is the boiling point of water at standard atmospheric pressure?
 - A. -100°C
 - B. 0°C
 - C. 100°C
 - D. 200°C

10. Which state of matter occurs at temperatures near absolute zero?
- A. Solid
 - B. Liquid
 - C. Gas
 - D. Bose-Einstein condensate
11. What is the most basic definition of matter?
- 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 only in solid form
12. Which of the following is NOT considered a fundamental particle that makes up an atom?
- A. Proton
 - B. Neutron
 - C. Photon
 - D. Electron
13. What determines the properties of a substance formed by atoms?
- A. The size of the atoms
 - B. The arrangement of protons, neutrons, and electrons within the atoms
 - C. The color of the atoms
 - D. The shape of the atoms
14. In which state of matter are particles closely packed but can move around each other?
- A. Solid
 - B. Liquid
 - C. Gas
 - D. Plasma
15. Which of the following is a characteristic of solids?
- A. Fixed shape and volume
 - B. Expands to fill the container
 - C. Flows and takes the shape of the container
 - D. Particles move randomly at high speeds
16. What allows gases to expand and fill their container?
- A. Strong forces between particles
 - B. Weak forces between particles and high energy of particles
 - C. Particles are closely packed
 - D. Particles vibrate in place
17. Which state of matter occurs at extremely high temperatures?
- A. Solid
 - B. Liquid
 - C. Gas
 - D. Plasma
18. What is an example of a physical property of matter?
- A. Freezing point
 - B. Reactivity with acids
 - C. Ability to combust
 - D. Formation of new compounds

19. Which of the following is a chemical property of matter?
- A. Density
 - B. Color
 - C. Ability to rust
 - D. Volume
20. What is the temperature near which Bose-Einstein condensates occur?
- A. Room temperature
 - B. Absolute zero
 - C. 100°C
 - D. Boiling point of water
21. What is matter defined as in the text?
- A. Anything that has mass and occupies space
 - B. Only celestial bodies like stars and planets
 - C. Substances that do not interact with energy
 - D. The force that holds particles together
22. Which of the following is NOT mentioned as a fundamental particle of an atom?
- A. Protons
 - B. Neutrons
 - C. Photons
 - D. Electrons
23. What determines the properties of a substance according to the text?
- A. The arrangement of protons, neutrons, and electrons within an atom
 - B. The temperature of the universe
 - C. The color of the substance
 - D. The size of the container holding the substance
24. In which state of matter are particles closely packed but can move around each other?
- A. Solid
 - B. Liquid
 - C. Gas
 - D. Plasma
25. 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 weaker forces between particles than gases
 - D. Gases are only found in celestial bodies
26. Which state of matter occurs at extremely high temperatures?
- A. Solid
 - B. Liquid
 - C. Plasma
 - D. Bose-Einstein condensate
27. What is an example of a physical property of matter?
- A. Flammability
 - B. Density
 - C. Reactivity with acid
 - D. Ability to rust

28. Which of the following describes a chemical property of matter?
- A. The boiling point of water
 - B. The color of gold
 - C. The ability of iron to rust
 - D. The volume of a gas
29. What is the boiling point of water at standard atmospheric pressure according to the text?
- A. 0°C
 - B. 100°C
 - C. 212°C
 - D. -100°C
30. Which of the following is NOT a classical state of matter mentioned in the text?
- A. Solid
 - B. Liquid
 - C. Plasma
 - D. Gas
31. What is matter defined as at its most basic level?
- A. Anything that has mass and occupies space
 - B. Only visible objects we can touch
 - C. Energy that cannot be measured
 - D. Substances that exist only in gases
32. Which of the following is NOT one of the fundamental particles that make up an atom?
- A. Protons
 - B. Neutrons
 - C. Photons
 - D. Electrons
33. What determines the properties of a substance formed by atoms?
- A. The arrangement of protons, neutrons, and electrons within the atom
 - B. The color of the atom
 - C. The size of the atom
 - D. The temperature outside 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. Which of the following is a common example of a solid?
- A. Rocks
 - B. Air
 - C. Water
 - D. Oxygen
36. What allows liquids to flow and take the shape of their container?
- A. The energy of particles allowing them to move around each other
 - B. The absence of particles
 - C. The particles being fixed in place
 - D. The particles being in a gaseous state

37. Which state of matter allows particles to spread out and move freely?
- A. Solid
 - B. Liquid
 - C. Gas
 - D. Plasma
38. What is an exotic state of matter that occurs at extremely high temperatures?
- A. Plasma
 - B. Bose-Einstein condensate
 - C. Superfluid
 - D. Liquid crystal
39. Which of the following is a physical property of matter?
- A. Mass
 - B. Ability to react with oxygen
 - C. Flammability
 - D. Reactivity with acids
40. What describes how matter interacts with other substances?
- A. Physical properties
 - B. Chemical properties
 - C. Biological properties
 - D. Optical properties
41. What is matter defined as at its most basic level?
- A. Anything that has mass and occupies space
 - B. A form of energy
 - C. Only visible objects
 - D. Substances that do not have mass
42. Which of the following is NOT a fundamental particle of an atom?
- A. Proton
 - B. Neutron
 - C. Quark
 - D. Electron
43. What determines the properties of a substance formed by an atom?
- A. The size of the atom
 - B. The arrangement of protons, neutrons, and electrons within the atom
 - C. The color of the atom
 - D. The shape of the atom
44. In which state of matter are particles closely packed but can move around each other?
- A. Solid
 - B. Liquid
 - C. Gas
 - D. Plasma
45. Which of the following is a characteristic of solids?
- A. Fixed shape and volume
 - B. Constantly changing shape
 - C. Expanding to fill their container
 - D. No fixed arrangement of particles

46. What is the state of matter that occurs at extremely high temperatures?

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

47. Which of the following is a physical property of matter?

- A. Flammability
- B. Density
- C. Reactivity with acids
- D. Ability to rust

48. What is the freezing point of water at standard atmospheric pressure?

- A. -10°C
- B. 0°C
- C. 100°C
- D. 212°C

49. Which state of matter allows particles to move freely and expand to fill their container?

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

50. What is the state of matter that occurs at temperatures near absolute zero?

- A. Solid
- B. Liquid
- C. Gas
- D. Bose-Einstein condensate