

Physical Science Fundamentals

Physical Science · Answer Key · 20 Questions

1. Which state of matter has a definite shape and a definite volume?

- A) Gas
- B) Liquid
- C) Solid**
- D) Plasma

2. What is the force that pulls objects toward the center of the Earth?

- A) Friction
- B) Magnetism
- C) Gravity**
- D) Static electricity

3. Which form of energy is produced by the vibration of objects?

- A) Light energy
- B) Sound energy**
- C) Chemical energy
- D) Nuclear energy

4. What do we call a material that allows electricity to flow through it easily?

- A) Conductor**
- B) Insulator
- C) Resistance
- D) Vacuum

5. What is the boiling point of water at sea level in degrees Celsius?

- A) 0
- B) 50
- C) 100**
- D) 212

6. Which simple machine consists of a rigid bar that pivots on a fulcrum?

- A) Pulley
- B) Lever**
- C) Inclined plane
- D) Screw

7. What is the smallest unit of an element that retains the properties of that element?

- A) Molecule
- B) Compound
- C) Atom**
- D) Cell

8. Which color of visible light has the longest wavelength?

- A) Red**
- B) Green
- C) Blue
- D) Violet

9. What happens when a liquid changes into a gas?

- A) Freezing
- B) Condensation
- C) Evaporation**
- D) Melting

10. Which force opposes the motion between two surfaces that are touching?

- A) Inertia
- B) Friction**
- C) Gravity
- D) Acceleration

11. What do we call a substance made of two or more different elements chemically bonded together?

- A) Mixture
- B) Solution
- C) Element
- D) Compound**

12. Which of these is a form of potential energy?

- A) A moving car
- B) A stretched rubber band**
- C) A running athlete
- D) A flowing river

13. What is the center part of an atom called?

- A) Electron
- B) Orbit
- C) Nucleus**
- D) Shell

14. What is the main source of light and heat for the Earth?

- A) The Moon
- B) The Sun**
- C) Burning wood
- D) Electricity

15. What do like magnetic poles do when brought near each other?

- A) Attract
- B) Repel**
- C) Spin
- D) Vibrate

16. What is the measure of the amount of matter in an object?

- A) Volume
- B) Weight
- C) Mass**
- D) Density

17. Which type of energy is stored in food and batteries?

- A) Kinetic energy
- B) Chemical energy**
- C) Thermal energy
- D) Sound energy

18. What happens to light when it hits a smooth, shiny surface and bounces off?

- A) Refraction
- B) Absorption
- C) Reflection**
- D) Diffraction

19. Which of these materials is an insulator of heat?

- A) Copper
- B) Steel
- C) Aluminum
- D) Plastic**

20. What is the term for the distance light travels in one year?

A) Light year

B) Astronomical unit

C) Parsec

D) Kilometer