

Basic Physics Concepts

Physics · Practice Test · 15 Questions

1. What is the SI unit of force?

- A) Watt
- B) Joule
- C) Newton
- D) Pascal

2. Which of the following is a form of potential energy?

- A) Kinetic energy
- B) Thermal energy
- C) Gravitational potential energy
- D) Sound energy

3. What force keeps planets in orbit around the Sun?

- A) Electromagnetic force
- B) Strong nuclear force
- C) Weak nuclear force
- D) Gravitational force

4. What is the speed of light in a vacuum?

- A) Approximately 300,000 meters per second
- B) Approximately 300,000 kilometers per hour
- C) Approximately 300,000 miles per second
- D) Approximately 300,000 miles per hour

5. What is the SI unit of electric current?

- A) Volt
- B) Ohm
- C) Ampere
- D) Watt

6. Which law states that for every action, there is an equal and opposite reaction?

- A) Newton's First Law
- B) Newton's Second Law
- C) Newton's Third Law
- D) Ohm's Law

7. What causes objects to appear in different colors?

- A) Reflection of light
- B) Absorption of light
- C) Refraction of light
- D) Diffraction of light

8. What is the unit of electrical resistance?

- A) Farad
- B) Henry
- C) Siemens
- D) Ohm

9. What is the process by which a liquid turns into a gas?

- A) Melting
- B) Freezing
- C) Boiling
- D) Condensation

10. What is the SI unit of energy?

- A) Watt
- B) Newton
- C) Pascal
- D) Joule

11. What type of energy is stored in a stretched rubber band?

- A) Kinetic energy
- B) Chemical energy
- C) Elastic potential energy
- D) Thermal energy

12. What is the phenomenon where light bends as it passes from one medium to another?

- A) Reflection
- B) Diffraction
- C) Refraction
- D) Interference

13. What are the building blocks of matter?

- A) Electrons
- B) Protons
- C) Neutrons
- D) Atoms

14. Which of these is a conductor of electricity?

- A) Rubber
- B) Glass
- C) Copper
- D) Wood

15. What is the unit of frequency?

- A) Second
- B) Hertz
- C) Newton
- D) Meter