

Basic Physics Concepts

Physics · Answer Key · 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