

Everyday Physics Fundamentals

Physics · Answer Key · 8 Questions

1. What fundamental force pulls all objects towards the center of the Earth?

- A) Friction
- B) Magnetism
- C) Gravity**
- D) Air Resistance

2. Which form of energy is stored in an object due to its position or state, such as a ball held high above the ground?

- A) Kinetic energy
- B) Sound energy
- C) Potential energy**
- D) Light energy

3. What phenomenon explains why a straight stick appears bent when partially submerged in water?

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

4. What characteristic of a sound wave primarily determines how loud we perceive it to be?

- A) Frequency
- B) Wavelength
- C) Amplitude**
- D) Speed

5. Which unit is commonly used to measure the rate of electric current flowing through a circuit?

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

6. How is heat primarily transferred through a solid material, like a metal spoon placed in hot soup?

- A) Convection
- B) Radiation
- C) Conduction**
- D) Evaporation

7. What is calculated by dividing the total distance an object travels by the total time it takes to travel that distance?

- A) Acceleration
- B) Velocity
- C) Speed**
- D) Momentum

8. What state of matter has a definite shape and a definite volume?

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