Middle School Physics Fundamentals

Physics · Answer Key · 10 Questions

1. What is the standard International System of Units (SI) unit for electric current?

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

2. Which method of heat transfer travels in the form of electromagnetic waves without requiring a physical medium?

A) Conduction
B) Convection
C) Radiation
D) Diffusion

3. Which component in an electrical circuit is used to open or close the flow of current?

A) Resistor
B) Battery
C) Switch
D) Voltmeter

4. What happens to a light ray when it travels from air into a denser medium like glass at an angle?

A) It reflects completely back into air
B) It bends towards the normal line
C) It bends away from the normal line
D) It travels in a straight line without changing direction

5. What is the correct mathematical formula used to calculate the average speed of an object?

A) Speed = Distance × Time
B) Speed = Distance ÷ Time
C) Speed = Time ÷ Distance
D) Speed = Force ÷ Acceleration

6. Which type of wave requires a physical medium (solid, liquid, or gas) to propagate?

A) Light wave
B) Radio wave
C) Sound wave
D) Microwave

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7. What physical property of a substance is determined by dividing its mass by its volume?

A) Pressure
B) Density
C) Weight
D) Velocity

8. What is the approximate gravitational field strength near the surface of Earth?

A) 9.8 N/kg
B) 1.6 N/kg
C) 98 N/kg
D) 0.98 N/kg

9. What occurs when two like magnetic poles, such as two North poles, are brought close to each other?

A) They attract each other
B) They repel each other
C) They neutralize each other
D) They rotate clockwise

10. What form of energy is stored in an object due to its elevated position above Earth's surface?

A) Elastic potential energy
B) Gravitational potential energy
C) Kinetic energy
D) Thermal energy

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