Elementary Physical Science and Basic Physics

Physics · Answer Key · 8 Questions

1. Which subatomic particle carries a negative electric charge?

A) Electron
B) Proton
C) Neutron
D) Photon

2. What is the bending of light as it passes from one transparent medium to another called?

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

3. Through which process does heat travel through direct contact in a solid metal rod?

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

4. What force pulls objects toward the center of the Earth?

A) Magnetism
B) Friction
C) Gravity
D) Tension

5. Why can sound waves NOT travel through outer space?

A) Space is too cold
B) Space is a vacuum with no matter to vibrate
C) Space is too dark
D) Gravity blocks sound waves

6. What happens when the north pole of one magnet is brought near the south pole of another magnet?

A) They repel each other
B) They attract each other
C) They cancel each other out
D) Nothing happens

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7. Which simple machine uses a wheel with a grooved rim and a rope to lift heavy loads?

A) Wedge
B) Screw
C) Pulley
D) Inclined plane

8. What process occurs when water vapor cools down and turns back into liquid water?

A) Condensation
B) Evaporation
C) Melting
D) Sublimation