

## **Science Test**

### **Sound Waves**

1. **What type of wave is a sound wave?**
  - A) Transverse
  - B) Longitudinal
  - C) Electromagnetic
  - D) Surface
  
2. **Which of the following determines the pitch of a sound?**
  - A) Amplitude
  - B) Wavelength
  - C) Frequency
  - D) Speed
  
3. **What happens to the speed of sound as it travels from air into water?**
  - A) It increases
  - B) It decreases
  - C) It stays the same
  - D) It becomes zero
  
4. **Which part of the ear is responsible for converting sound waves into electrical signals?**
  - A) Outer ear
  - B) Ear canal
  - C) Eardrum
  - D) Cochlea

### **Structure of the Earth**

5. **Which layer of the Earth is composed mostly of solid iron and nickel?**
  - A) Crust
  - B) Mantle
  - C) Outer core
  - D) Inner core

6. **What is the thickest layer of the Earth?**
- A) Crust
  - B) Mantle
  - C) Outer core
  - D) Inner core
7. **Which layer of the Earth is responsible for the creation of Earth's magnetic field?**
- A) Crust
  - B) Mantle
  - C) Outer core
  - D) Inner core

### **Solar and Lunar Eclipses**

8. **During a solar eclipse, what celestial body is between the Earth and the Sun?**
- A) The Moon
  - B) The Earth
  - C) The Sun
  - D) A star
9. **What type of eclipse occurs when the Earth passes between the Moon and the Sun?**
- A) Solar eclipse
  - B) Lunar eclipse
  - C) Annular eclipse
  - D) Partial eclipse
10. **Why don't we have a solar eclipse every month?**
- A) The Earth's orbit around the Sun is elliptical
  - B) The Moon's orbit is tilted relative to the Earth's orbit around the Sun
  - C) The Sun's size changes throughout the year
  - D) The Earth's rotation speed changes throughout the year