

# Advanced Earth Science Challenge

Earth Science · Answer Key · 5 Questions

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**1. What is the name of the boundary that separates the Earth's crust from the underlying mantle?**

- A) Gutenberg discontinuity
- B) Mohorovicic discontinuity**
- C) Lithospheric break
- D) Asthenosphere junction

**2. Which type of plate boundary is responsible for the formation of the Himalayan Mountain range?**

- A) Convergent (Continental-Continental)**
- B) Convergent (Oceanic-Continental)
- C) Divergent
- D) Transform

**3. In which layer of the Earth's atmosphere does nearly all weather occur?**

- A) Stratosphere
- B) Mesosphere
- C) Troposphere**
- D) Exosphere

**4. Which seismic wave is the fastest and can travel through both solid and liquid layers of the Earth?**

- A) S-wave
- B) Surface wave
- C) Love wave
- D) P-wave**

**5. What is the approximate axial tilt of the Earth, which is primarily responsible for the seasons?**

- A) 15.5 degrees
- B) 23.5 degrees**
- C) 33.2 degrees
- D) 45.0 degrees