

## Earth's layers quiz

Language of the standard: Compare and contrast the Earth's crust, mantle, and core including temperature, density, and composition.

1. Which layer of Earth contains molten metal and is responsible for Earth's magnetic field?

- A. crust      B. mantle      C. inner core      D. outer core

2 Which explains why the continental crust floats on top of the mantle?

- A. The crust is made of a liquid material.  
B. The crust is less dense than the mantle.  
C. The crust is made up of oxygen, which is a light element.  
D. The crust is separated from the mantle by a layer of water.

3. What is the correct order of Earth's layers beginning with the hottest and most dense layer?

- A. outer core, mantle, inner core, and crust  
B. inner core, outer core, mantle, and crust  
C. crust, mantle, outer core, and inner core  
D. mantle, inner core, outer core, and crust

4 The crust and the rigid, upper part of the mantle composes the \_\_\_\_\_.

- A. Asthenosphere      C. Lithosphere  
B. Geosphere      D. Magnetosphere

5 What causes convection currents to move within the mantle?

- A. Heat from the core causes material to become less dense and rise towards the surface  
B. Heat from the sun causes material to become less dense and rise towards the surface  
C. Heat from the sun causes material to become more dense and rise towards the surface  
D. Heat from the core causes material to become more dense and rise towards the surface

6 With regards to earth's layers, what happens to density, pressure, and temperature as you go deeper into the earth?

- A. They all decrease      C. They all stay the same  
B. They all increase      D. It depends on the tilt of the axis

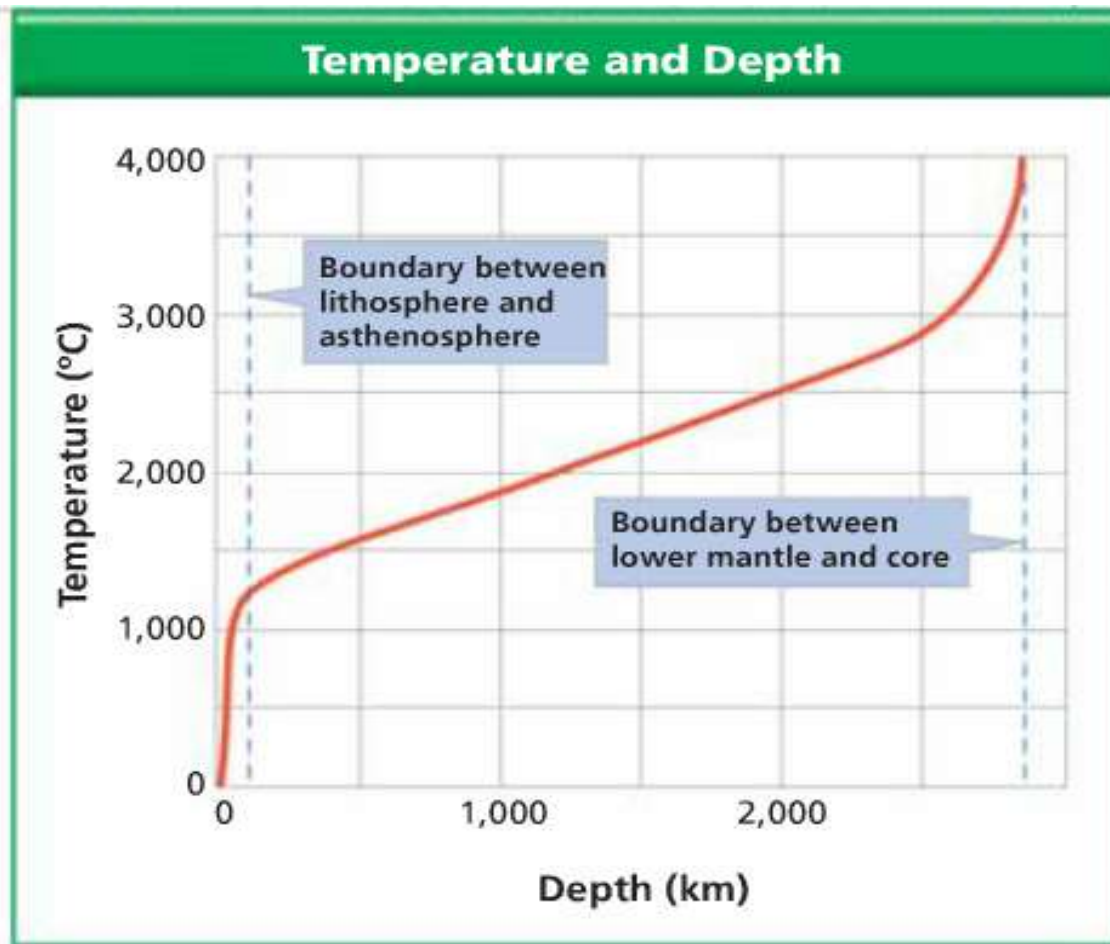
7. Earth's lithosphere is divided into \_\_\_\_\_.

- A. Continents      C. Plates  
B. Countries      D. Landmasses

8. Scientists believe that plate movement is caused by \_\_\_\_\_.

- A. Volcanoes      C. An asteroid impact long ago  
B. Earthquakes      D. Convection currents

Using the following graph answer the questions 9 and 10.



9. As you move from left to right on the x-axis, how does the depth inside Earth change?

- A. Increases by 3,000 km
- B. Increase by 1,000 km
- C. Decreases by 3,000 km
- D. Decreases by 1,000 km

10. What is the temperature at the boundary between the lower mantle and the core?

- A. 1,000 C
- B. 2,000 C
- C. 3,000 C
- D. 4,000 C