

## TEXT 1 Earthquakes

### Pre\_read

1. Have you ever experienced an earthquake or seen an active volcano?
2. Do you know why such events occur?
3. Is the earth really just a very large ball of hard rock?
4. If you drilled a hole in the ground and went on drilling deeper and deeper, what would you find?

### Text

- Para 1 1 The planet earth seems to us a very stable and unmoving place — continents of solid rock surrounded by the oceans. In one sense, of course, it is stable, or our kind of life would be impossible. But when we experience or hear about violent natural events like earthquakes and volcanoes, we also get some idea  
5 of the great forces at work under its surface.
- P2 1 In fact the earth is a very complex object, made up of many layers. What we are familiar with is only the upper surface of the 'skin', or crust. This crust is altogether rather more than 100 km deep. The outer crust, of a depth of approximately 8 km, is made mostly of very hard rock, a kind of granite.  
5 This makes up the continents or major land masses. Below it is a much thicker layer, the inner crust, also made of a hard but different kind of rock, basalt. Beneath this lies the upper mantle, a semi-fluid layer about 600 km deep, where temperatures reach 1,500°C. The lower mantle is more rigid, because of the great pressures at those depths. It extends a further 2,900 km  
10 towards the centre of the earth and has a temperature twice that of the layer immediately above it.
- P3 1 Within the mantle is the core. This again is divided into two layers, the outer and the inner. The former consists of molten nickel and iron and has a temperature of 3,900°C. The latter, of the same constituents, is, however, relatively solid, again because of the great pressure at those depths. The  
5 temperature of the inner core is about 900°C higher than that of the outer core and its diameter is approximately 4,300 km.

# TEXT Study 1

## A. Content skim :

What is the topic of the passage? .....

.....

What does it list in detail? .....

.....

How many of these does it mention? .....

.....

What is the topic of each paragraph?

Para 1	
Para 2	
Para 3	

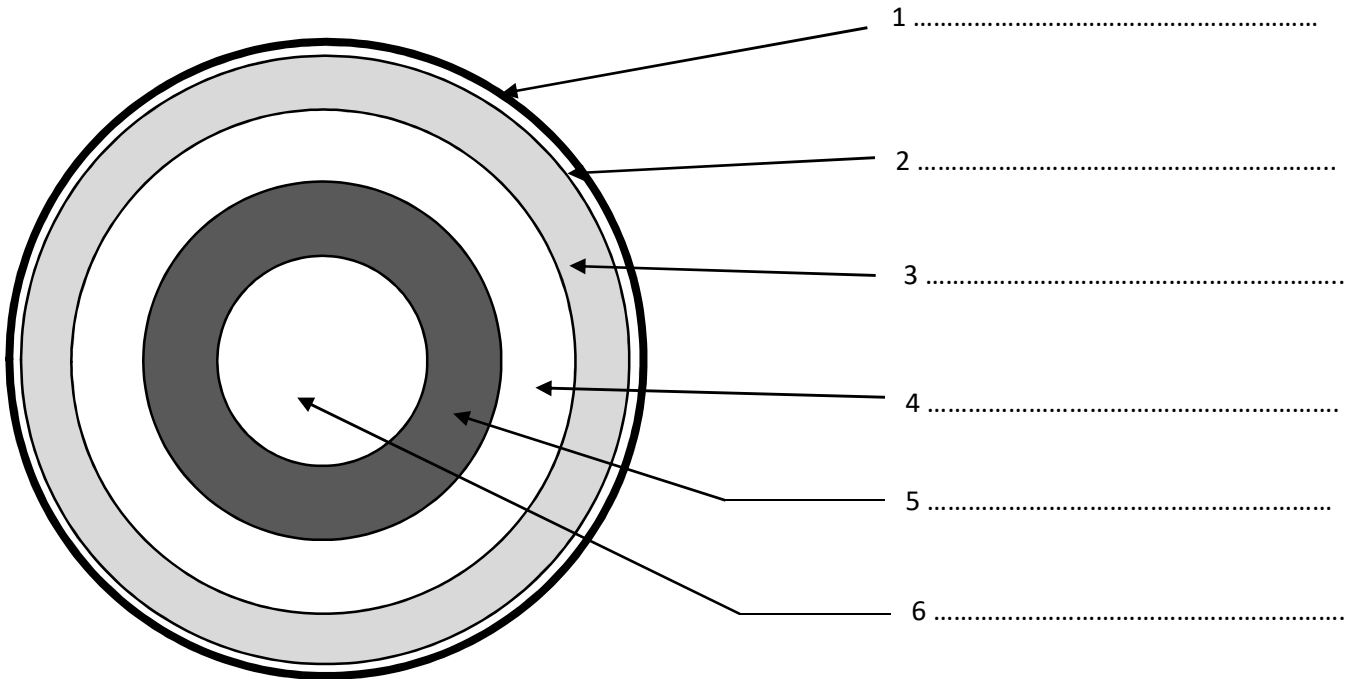
## B. Comprehension Scan

Para 1 Line 2	What does "it" refer to?	
Para 1 Line 5	What does "its" refer to	
Para 2 Line 5	What does " This " refer to	
Para 2 Line 5	What does "it" refer to	
Para 2 Line 7	What does "this" refer to	
Para 2 Line 8	"more rigid" than what	
Para 2 Line 10	What temperature	
Para 2 Line 11	What does "it" refer to	

Para 3 Line 1	What do <b>"This"</b> refer to	
Para 3 Line 2	What does <b>"the former"</b> refer to	
Para 3 Line 2	What layer consists of <b>"molten nickel and iron"</b>	
Para 3 Line 3	What does <b>"the latter"</b> refer to	
Para 3 Line 3	<b>"relatively solid"</b> than what	
Para 3 Line 6	What does <b>"its"</b> refer to	

**A. Identifying and describing**

Label the diagram and complete the table below it.



Layer	Contituents/Consistency	Temperature	Depth
1			
2			
3			
4			
5			
6			