Class:

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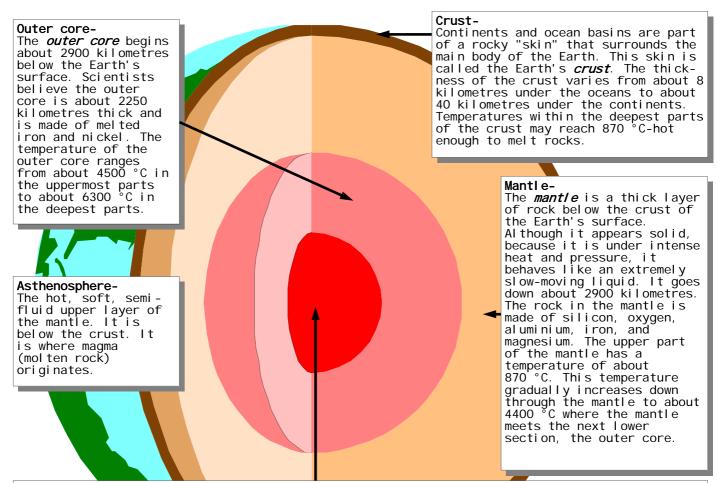
THE EARTH

Domain: 4.9

describes the dynamic structure of Earth and its relationship to other parts of our solar system and universe

The Structure of The Earth

The Earth's internal structure is divided into several layers as shown in the diagram below:



Inner core-

The *inner core* lies within the outer core and makes up the centre of the Earth. The boundary between the outer and inner cores is about 5150 kilometres below the Earth's surface. The centre of the inner core is about 1300 kilometres below this boundary, or about 6400 kilometres below the Earth's surface. Scientists believe the inner core consists of solid iron and nickel. The temperature there may be as high as 7000 °C. At normal pressures, these metals would have turned into gases.

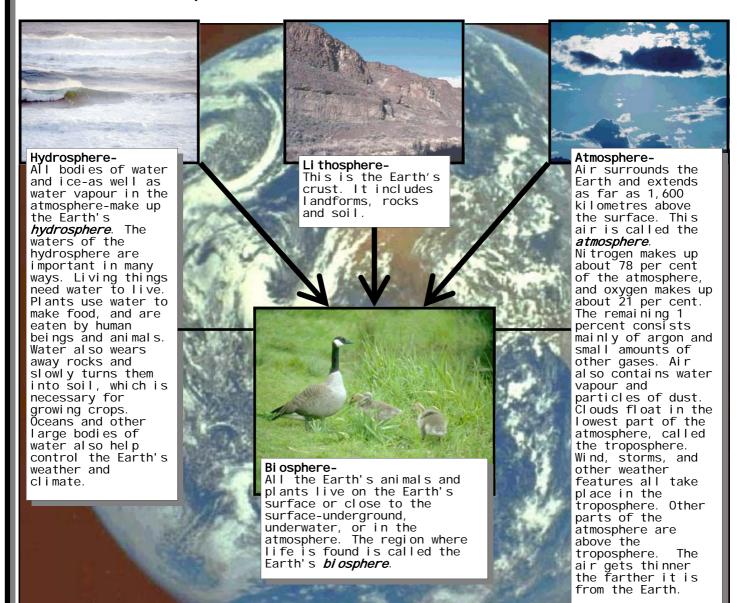
The Earth is thought to be about 5000 million years old. It is almost a *sphere*. There is a slight bulge about the *equator* and the *polar regions* are slightly flattened. The internal structure of the Earth consists of a number of layers as shown in the diagram.

THE EARTH



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The Earth's Biosphere



Questions:

- 1. What are the four main layers of the Earth's structure?
- 2. The following questions refer to the structure of the Earth:
- (a) Which layer is the outer layer?(b) Which layer is the thickest layer?(c) Which layer is liquid?(d) Which layer is at the centre of the Earth?(e) What is the asthenosphere?
- 3. Draw a column graph to represent the difference in thickness of the layers of the Earth. Use 50 km for the crust.
- 4. (a) How old is the Earth thought to be? (b) Describe the shape of the Earth.
- 5. What is the Earth's biosphere?
- 6. Which part of the Earth:

(a) is made up of air?; (b) is made up of all the water and ice on the Earth?; (c) is the Earth's crust?