



Provincial Department of Education – Sabaragamuwa- Week School

Week: 11th Week – 3rd – 9th Jan, 2021

Subject- Geography

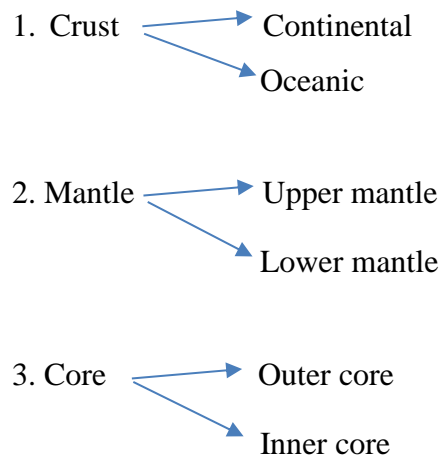
Grade 10

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The Composition of the Earth.

- Refer the pages 10-13.

The structure of the Earth is composed of three main layers.



- The boundary that separates the crust of the earth from the mantle is called Mohorovicic discontinuity.
- The boundary that separates the mantle from the core is called the Gutenberg discontinuity.

The special characteristics of the layers of the Earth's structure.

The crust	The mantle	The core
<ul style="list-style-type: none"> • It consists about 1% of the total land mass of the earth. • The thickness of the crust is not uniform. • This thin soil layer is important for agriculture activities. • The continental crust is called the Sial layer as it is primarily composed of Silica and Aluminum. • The oceanic crust is called the Simag layer as it consists primarily of Silica and Magnesium. 	<ul style="list-style-type: none"> • This layer forms 2/3 of the land mass of the Earth. • This layer is divided in to two parts; the upper mantle and the lower mantle. • The upper part of the mantle consists of Olivine and Silicate while the lower part is made up of Magnesium and Silicate. 	<ul style="list-style-type: none"> • The core is located below the mantle of the Earth. • According to the composition, it is divided in to two parts, Namely the inner core and the outer core. • The outer core consists of liquid metal (Nickle and Iron) • The inner core consists of a thick metal (Iron) layer.

- The lithosphere consists of seven major tectonic plates and a few minor plates.
- These tectonic plates move as a result of the convectional currents which are active in the mantle.

❖ Answer all the questions.

1. Draw the structure of earth and name it.
2. Write three main features of the each layer in the structure of earth.
3. On which tectonic plate is Sri Lanka located?
4. What is the reason to move tectonic plates very slowly?
5. Mark and name the location of the major tectonic plates on a map of the world.