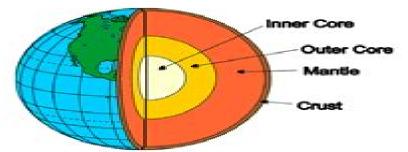
#### GEOMORPHOLOGY GRADE 10 TERM 2

Geomorphology-refers to the study of changing surface of the earth by both internal as well as external forces and their resultant landforms.

INTERNAL FORCES-endogenic forces e.g. earthquake, volcanism

EXTERNAL FORCES-exogenic forces e.g. erosion, weathering, deposition.

#### THE STRUCTURE OF THE EARTH



The earth consists of three layers i.e.

- 1. Crust
- 2. Mantle
- 3. Core

#### CRUST

This is the outer most layer of the earth. The crust ranges in thickness between 5km to 75 km. It is made up of the solid continent (SIMA) and the ocean floor, sea beds (SIMA). The crust makes up only about 1% of the total volume of the earth. The temperature of the crust ranges from -60°C to about 200°C where it merges with the mantle. The diving zone of distinction between the crust and the mantle is known as the Moho Discontinuity Line. The crust is less dense than both the mantle and the core as a result it appears to float on the denser mantle.

#### Continental Crust (SIAL)

The main rock is granite with dominant minerals Silicon and Aluminium (SIAL). This is about 30 to 60 km thick. The sial is lighter and is therefore forms the upper layer.

#### Oceanic Crust (SIMA)

The main rock is basalt and main minerals are Silicon and Magnesium (SIMA). SIMA is between 5 to 15 km thick. Sima is heavier and forms the lower layer. It is a continuous layer around the earth and underlines the oceans.

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**Xiang Xie** 

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