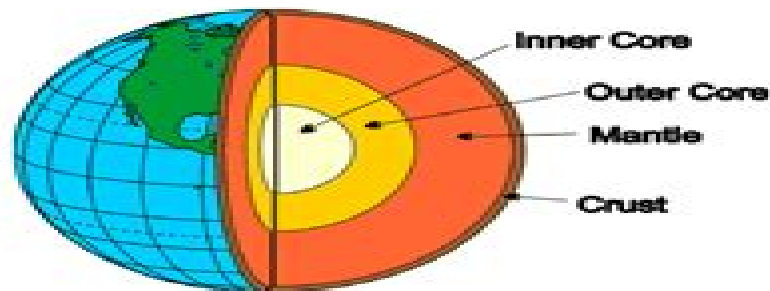


Geomorphology-refers to the study of changing surface of the earth by both **internal** as well as **external** forces and their resultant landforms.

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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Table of Contents Geomorphology Grade 1caps

1. Understanding the eBook Geomorphology Grade 1caps
 - The Rise of Digital Reading Geomorphology Grade 1caps
 - Advantages of eBooks Over Traditional Books
2. Identifying Geomorphology Grade 1caps
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Geomorphology Grade 1caps
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geomorphology Grade 1caps
 - Personalized Recommendations
 - Geomorphology Grade 1caps User Reviews and Ratings
 - Geomorphology Grade 1caps and Bestseller Lists
5. Accessing Geomorphology Grade 1caps Free and Paid eBooks
 - Geomorphology Grade 1caps Public Domain eBooks
 - Geomorphology Grade 1caps eBook Subscription Services
 - Geomorphology Grade 1caps Budget-Friendly Options

6. Navigating Geomorphology Grade 1caps eBook Formats
 - ePub, PDF, MOBI, and More
 - Geomorphology Grade 1caps Compatibility with Devices
 - Geomorphology Grade 1caps Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geomorphology Grade 1caps
 - Highlighting and Note-Taking Geomorphology Grade 1caps
 - Interactive Elements Geomorphology Grade 1caps
8. Staying Engaged with Geomorphology Grade 1caps
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geomorphology Grade 1caps
9. Balancing eBooks and Physical Books Geomorphology Grade 1caps
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geomorphology Grade 1caps
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Geomorphology Grade 1caps
 - Setting Reading Goals Geomorphology Grade 1caps
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geomorphology Grade 1caps
 - Fact-Checking eBook Content of Geomorphology Grade 1caps
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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