

Earth Materials

Igneous Rocks

Magma Composition

- Rock beneath the Earth's surface is sometimes heated to high enough temperatures that it melts into magma.
- Different magmas have different composition and contain whatever elements were in the rock or rocks that melted.
- The main elements are the same as the elements found in the crust.
- The remaining 1.5% is made up of many other elements that are present in tiny quantities.

Study Tip

Partial melting and fractional crystallization can be thought of as opposite ways of separating minerals. One uses heating, the other uses cooling.

Elements in Earth's Crust and Magma

Element	Symbol	Percent
Oxygen	O	46.67%
Silicon	Si	27.7%
Aluminum	Al	8.1%
Iron	Fe	5.0%
Calcium	Ca	3.6%
Sodium	Na	2.8%
Potassium	K	2.6%
Magnesium	Mg	2.1%
Total		98.5%

Elements in Earth's Crust and Magma

The different geologic settings that produce varying conditions under which rocks melt will be discussed in Concept Plate Tectonics.

- **Temperature:** Increases with depth (melting more likely at greater depths).
- **Pressure:** Pressure increases with depth, but increased pressure raises the melting temperature, (melting less likely at higher pressures).
- **Water:** As water increases, the melting point decreases.
- **Rock Composition:** Temperature must be high enough to melt at least some minerals in the rock.

Melting and Crystallization

- Minerals that melt at the lowest temperatures melt first.
- If liquid separates solids in partial melting or fractional crystallization, then chemical composition of the liquid and solid will be different.

Igneous Rocks Study Guide

Arihant Experts



Igneous Rocks Study Guide:

Unveiling the Power of Verbal Art: An Mental Sojourn through **Igneous Rocks Study Guide**

In some sort of inundated with screens and the cacophony of instantaneous communication, the profound energy and psychological resonance of verbal beauty frequently fade into obscurity, eclipsed by the continuous barrage of sound and distractions. However, nestled within the musical pages of **Igneous Rocks Study Guide**, a captivating work of literary beauty that impulses with raw emotions, lies an wonderful journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, that magical opus guides viewers on a psychological odyssey, delicately revealing the latent potential and profound affect embedded within the complicated internet of language. Within the heart-wrenching expanse of the evocative evaluation, we can embark upon an introspective exploration of the book is key styles, dissect their interesting writing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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