

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.

Assessment Igneous Rocks Study Guide

Arshad Iqbal



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