

All About Igneous Rocks

Name _____

Igneous rocks are one of the three main types of rocks, alongside sedimentary and metamorphic rocks. They are formed from the cooling and solidification of molten rock, or magma. Igneous rocks can be found all over the world and can vary greatly in their composition, texture, and color.



Formation of Igneous Rocks

Igneous rocks are formed from magma, which is molten rock that is found deep beneath the Earth's surface. When magma rises to the surface, either through volcanic activity or other processes, it cools and solidifies to form igneous rocks. The rate at which magma cools and solidifies has a significant impact on the texture and appearance of the resulting rock.

Types of Igneous Rocks

There are two main types of igneous rocks: intrusive and extrusive. Intrusive rocks are formed when magma cools and solidifies slowly beneath the Earth's surface, while extrusive rocks are formed when magma cools and solidifies quickly on the Earth's surface.

Intrusive rocks, also known as plutonic rocks, are usually coarse-grained and have large crystals. Examples of intrusive rocks include granite, diorite, and gabbro.

Extrusive rocks, also known as volcanic rocks, are usually fine-grained and have small crystals. Examples of extrusive rocks include basalt, andesite, and rhyolite.

Glassy and Vesicular Rocks

When magma cools and solidifies quickly, it may not have enough time to form crystals, resulting in a glassy texture. Obsidian is an example of a glassy igneous rock. On the other hand, when magma contains gas bubbles that are trapped as the rock cools and solidifies, it can form a vesicular texture. Pumice is an example of a vesicular igneous rock.

Cooling Time and Crystal Size

The rate at which magma cools and solidifies has a significant impact on the size of the crystals that form. When magma cools slowly, the crystals have more time to grow and can become quite large. This results in a coarse-grained texture. When magma cools quickly, the crystals have less time to grow and are much smaller. This results in a fine-grained texture.

Igneous Rocks Guided Study Answers

Arshad Iqbal



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