



CASE STUDY

The Formation of Igneous Rocks

Scenario

Scenario: A team of geologists is conducting a research project on a newly discovered volcanic island. They have observed various igneous rocks in different locations and want to understand the processes that led to their formation. The team collects samples and notes that some rocks are found beneath the surface, while others are located near the top of the island.

Background Information

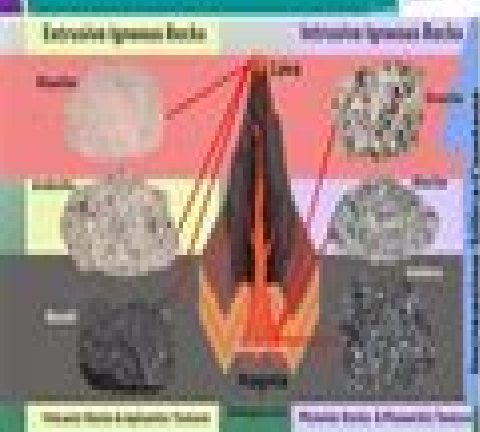
Background information: Igneous rocks are formed from the solidification and cooling of molten rock material. This material is known as magma when it is beneath the Earth's surface and lava when it erupts onto the surface. Igneous rocks are classified into two main types based on where they form: intrusive (plutonic) and extrusive (volcanic). Intrusive rocks, such as granite, form deep within the Earth's crust.

Fill in the Blanks

1. Igneous rocks are formed from the _____ and cooling of molten rock material.

Questions

1. What is the primary material from which igneous rocks are formed?
2. What are the two main types of igneous rocks? How are they formed?



Igneous Rock Chart

Rock Type	Color	Texture	Formation
Granite	Light-colored	Coarse-grained	Intrusive (plutonic)
Diorite	Light-colored with dark spots	Coarse-grained	Intrusive (plutonic)
Gabbro	Dark-colored	Coarse-grained	Intrusive (plutonic)
Basalt	Dark-colored	Fine-grained	Extrusive (volcanic)
Rhyolite	Light-colored	Fine-grained	Extrusive (volcanic)
Andesite	Dark-colored	Fine-grained	Extrusive (volcanic)



between intrusive and extrusive igneous rocks. Intrusive rocks form from magma cooling slowly beneath the surface, while extrusive rocks form from lava cooling on the surface.

Study Guide Igneous Rocks Fill In Blanks

**Peter L. Kresan, Reed Mencke, Frank
Press, Raymond Siever**



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Smarts Susan Custer, Celia C. Meyers, Deborah A. Murphy, 1995 This book offers study strategies and techniques which were originally used in resource rooms for students with mild disabilities but are appropriate for all students all content areas and all educational levels The book is structured around the acronym SMARTS for the six action steps or skills covered 1 Studying 2 Memorizing 3 Active listening 4 Reviewing 5 Test taking and 6 Survival skills The book begins with a study skills inventory and a group text inventory Activities to foster listening skills are then offered including eight awareness activities and five activities for fostering listening comprehension The next section suggests 12 activities to help students learn to follow directions A section on organizational skills gives tips on use of an organizational notebook assignment sheets and instant study skills Suggestions for the effective use of textbooks describe the SQ3R Survey Question Read Recite Review technique and the use of text study helps Suggestions for note taking and ideas for building vocabulary are also offered A section on memory and review suggests a variety of memory aids and the use of learning logs and study guides The

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scientific concepts. 2.I CAN Distinguish between fission ... Matter and Change • Chapter 25 When a radioactive nucleus gives off a gamma ray, its atomic number increases by. 12. The three types of radiation were first identified by Ernest Rutherford. Nuclear Chemistry - Lake Central High School Jul 12, 2015 — What is the change in atomic number after the alpha decay? It decreases by 2.b. ... answer the following questions.Nuclear ... 25.2 Nuclear Transformations | Lecture notes Chemistry These nuclei decay by turning a neutron into a proton to emit a beta particle (an electron) from the nucleus. This process is known as beta emission. It ... 60 s - 1 min SECTION 25.2 NUCLEAR TRANSFORMATIONS. 1. Write a nuclear equation for the following radioactive processes. a. alpha decay of francium-208 $^{208}_{87}\text{Fr} \rightarrow \text{b} \dots$