

Section 2 Igneous Rocks (continued)

Main Idea

Classifying Igneous Rocks

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Details

Sequence the three types of igneous rock. The arrows show how the density, silica content, and iron and magnesium content increase among the types of igneous rock.

Density



Silica



Iron and
Magnesium



Analyze how the characteristics of each type of magma affect how it rises to the surface.

Type of Magma	Characteristics	How It Rises to the Surface
Basaltic		oozes out through cracks in ocean floor or spills out of volcanos
Granitic		
Andesitic		

SYNTHESIZE IT

Classify the following rocks on the basis of what you have learned from this section. Identify whether each is intrusive or extrusive, and identify its composition as basaltic, granitic, or andesitic.

a) a dark-colored rock containing a high level of iron that formed from magma that cooled beneath Earth's surface

b) a light-colored rock with high silica content that formed from lava on Earth's surface