

LAB: IGNEOUS ROCKS

Sample and Name	Color	Composition	Texture	Environment of Formation
—				
—				
—				
—				
—				
—				
—				
—				

Questions:

What type of igneous rocks take the longest to cool? Why?

Volcanic rocks cool more quickly than plutonic rocks. Name some environments where volcanic rocks are likely to form.

If plutonic rocks are formed deep inside the crust of the Earth, will we ever see them on the surface of the Earth? Explain your answer.

Why is pumice very light?

How did pumice form? Was it cooled quickly or slowly?

What is the difference between pumice and scoria?

What common material does obsidian resemble?

Why is basalt always a dark color? (Hint: Has something to do with minerals.)

Basalt contains a lot of "dark" elements like iron and magnesium. Notice that andesite is not as dark as basalt. Does andesite thus have more or less "dark" minerals?

Why is rhyolite light in color?

What is the difference between basalt and granite?