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Mr. Schmidt Science 7

Glencoe Earth Science Chapter 5 Vocabulary Words

Bowen’s Reaction Series fractional crystallization igneous rock lava partial melting

Basaltic rock extrusive rock granitic rock intrusive rock kimberlite

Pegmatite porphyritic texture texture vesicular texture

1. Extrusive rock – fine-grained igneous rock that is formed when molten rock cools quickly and solidifies on Earth’s surface.
2. Fractional crystallization – process in which different minerals crystallize from magma at different temperatures, removing elements from magma.
3. Pegmatite – vein deposits of extremely large-grained minerals that can contain rate ores such as lithium and beryllium.
4. Vesicular texture – a spongy-looking rock; lava whose gas bubbles do not escape.
5. Texture – the size, shape, distribution of the crystals or grains that make up a rock.
6. Granitic rock – light-colored rock that has high silica content, and contains quartz and potassium feldspar.
7. Kimberlite – rare, ultramafic rock that can contain diamonds and other minerals formed only under very high pressures.
8. Basaltic rock – rock that is dark colored, has lower silica contents, and is rich in iron and magnesium; contains mostly plagioclase and pyroxene.
9. Bowens Reaction Series – sequential, predictable, dual-branched pattern in which minerals crystallize from cooling magma.
10. Partial melting – process in which different minerals melt into magma at different temperatures, changing its composition.
11. Lava – magma that flows out onto Earth’s surface.
12. Porphyritic texture – rock texture characterized by large, well-formed crystals surrounded by finer-grained crystals of the same mineral.
13. Igneous rock – intrusive or extrusive rock formed from the cooling and crystallization of magma or lava.
14. Intrusive rock – coarse-grained igneous rock that is formed when molten rock cools slowly and solidifies inside Earth’s crust.