

Igneous Rocks- Interlude A & Chapter 4

1. **What are the different rock types and how are they formed?** Igneous rocks are formed from melted rock deep inside the Earth. Sedimentary rocks are formed from layers of sand, silt, dead plants, and animal skeletons. Metamorphic rocks formed from other rocks that are changed by heat and pressure underground.
2. **What two characteristics do we examine to classify each of the different rock types?** Texture and composition
3. **What's the difference between magma and lava?** Magma is molten rock that is underground and lava is molten rock that breaks through the Earth's surface. **What are the three main constituents of magma?** Magma and lava contain melt, solids, and volatiles. The melt is made of ions from minerals that have liquified.
4. **Know what intrusive and extrusive mean.** Extrusive rocks are formed on the surface of the Earth from lava, which is magma that has emerged from underground. Intrusive rocks are formed from magma that cools and solidifies within the crust of the planet. **Know how dikes differ from sills.** A sill is a concordant intrusive sheet, meaning that a sill does not cut across preexisting rock beds. A dike is a discordant intrusive sheet, which does cut across older rocks. Sills are fed by dikes, except in unusual locations where they form in nearly vertical beds attached directly to a magma source.
5. **What causes melting of rock to make magma/lava?** Differences in temperature, pressure, and structural formations in the mantle and crust cause magma to form in different ways. Decompression enables the mantle rock to melt and form magma.
6. **What are the different textures that you get in igneous rocks depending on how it cools?** Phaneritic, aphanitic, porphyritic, glassy, pyroclastic, and pegmatitic.
7. **What factors control magma composition?** Different minerals in rocks melt at different temperatures and the amount of partial melting and the composition of the original rock determine the composition of the magma. **How does magma composition (silica content, Ca and Na, Mg and Fe) change with partial melting and assimilation?** Liquid magma is less dense than the surrounding solid rock, so it rises through the mantle and crust. During assimilation, pieces of country rock with a different, often more felsic, composition are added to the magma. These solid pieces may melt, which changes the composition of the original magma. **How is this reflected in Bowen's reaction series?** Bowen's reaction series describes the temperature at which minerals crystallize when cooled, or melt when heated.
8. **What minerals do you see in felsic, intermediate, mafic and ultramafic rocks?** Felsic has feldspar, quartz, biotite, and hornblende. **What accounts for the different textures you see in intrusive and extrusive rocks?** Extrusive or intrusive rocks crystallize from lava at the Earth's surface. The texture of an igneous rock is dependent on the rate of cooling of the melt: slow cooling allows large crystals to form, fast cooling yields small crystals. **What is a porphyritic texture?** The texture describes a rock that has well-formed crystals visible to the naked eye, called phenocrysts, set in a very fine grained or glassy matrix, called the groundmass.

Chapter 4 Study Guide Igneous Rocks Answers

Terry C. Jones



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