

Earth Science Chapter 4: Study Guide

Section 1

- Definitions

Rock-forming mineral

Grains

Sedimentary rock

Granite

Texture

Metamorphic rock

Basalt

Igneous rock

- Know what the three things that geologists observe when studying a rock sample
- Know the types of grain size, shape and pattern
- Be able to determine the grain size, shape and pattern based on a picture
- Know the three major groups of rocks

Section 2

- Definitions

Extrusive rock

Intrusive rock

Silica

- Know how igneous rocks are classified
- Know how igneous rocks are formed
- Know the difference between extrusive and intrusive rocks
- Know what color rock will result depending on the silica content
- Be able to list at least one use of igneous rock

Section 3

- Definitions

Sediment

Compaction

Organic rock

Erosion

Cementation

Chemical rock

Deposition

Clastic rock

- Be able to describe the four processes that form sedimentary rock
- Know the three major groups of sedimentary rock
- Know how each group of sedimentary rocks form
- Be able to list at least one use of sedimentary rock

Section 4 ***** SKIP THIS SECTION

Section 5

- Definitions

foliated

- Know how metamorphic rocks form
- Know how metamorphic rocks are classified
- Know the difference between foliated and nonfoliated rocks
- Be able to list at least one use of metamorphic rock

Section 6

- Definitions

Rock Cycle

- Be able to draw the entire rock cycle