

Study Guide

F2-2, 3, 4

Vocabulary:

Strata: layers of sediment

Stratification: the process of sedimentary rocks arranged in layers

Foliated: texture of metamorphic rock in which the mineral grains are arranged in planes or bands

Extrusive: a type of igneous rock that forms as a result of volcanic activity, at or near the surface. Small or NO crystals present.

Nonfoliated: texture of metamorphic rock in which the mineral grains are NOT arranged in planes or bands

Intrusive: type of igneous rock formed from the cooling and solidification of magma beneath the surface. Very LARGE crystals

Chemical Sedimentary Rock: formed from solutions of dissolved minerals, crystals are usually left behind then the liquid evaporates.

Organic Sedimentary Rock: formed from remains of once living organisms (coral, coral reefs, coal)

Clastic Sedimentary Rock: fragments of rocks cemented together

Contact Metamorphism: rocks change due to an increase in temperature only.

Regional Metamorphism: rocks change due to increased temperatures and pressures

Things to Know:

1. Sedimentary Rocks
 - a. Form WITHOUT heat and pressure, usually near the surface
 - b. Has layers called strata formed through the process of stratification
 - c. Fossils can be found in these rocks
 - d. 3 types (classifications) of sedimentary rocks (Clastic, Chemical, Organic)
 - e. 5 steps to form sedimentary rocks
 - i. Weathering: breakdown of rock
 - ii. Erosion: material transported from one location to another
 - iii. Deposition: sediment collects in low lying areas
 - iv. Compaction/Cementation: sediment under pressure-hardens over time
 - v. Formation of Sedimentary Rock

2. Metamorphic Rock
 - a. Rocks changed from HEAT and PRESSURE, known as metamorphism
 - b. Metamorphic rock has 2 textures
 - i. Foliated
 - ii. Nonfoliated
 - c. These rocks DO NOT MELT

3. Igneous Rocks
 - a. Formed from cooling magma that solidifies
 - b. If cools quickly
 - i. Fine grained texture
 - ii. Little or NO crystals
 - c. If cools slowly
 - i. Coarse grained texture
 - ii. May have large crystals