**Unit 5-Weathering and Sedimentary Rocks**

**Objectives and Vocabulary**

**Objectives:**

* Explain the difference between weathering and erosion
* Differentiate between mechanical and chemical weathering
* Identify and Explain the three major types of chemical weathering
* Identify and Explain the the affect of water chemical weathering
* Explain how granite and silicate minerals are chemically weathered by water
* Define spheroidal weathering
* Analyze the difference between spheroidal weathering and unloading
* List at least three factors that affect the rate of weathering
* Explain how surface area contributes to weathering
* Explain differential weathering
* Predict differential weathering patterns, given information about the rock material
* Describe the major processes involved in the formation of sedimentary rocks
* Define the term strata
* Distinguish between clastic and chemical sedimentary rocks
* Explain at least one way you can distinguish shale from siltstone
* Identify feature unique to sedimentary rocks and explain how they can be useful to Earth’s history
* Explain how fossils found within sedimentary rocks can be useful in studying a rock’s history
* Describe the term stratigraphic sequence
* Classify sedimentary rocks according to texture and grain size using an ID guide

**Vocabulary:**

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| Mechanical weathering | Chemical weathering | Frost wedging | Talus | Exfoliation |
| Unloading | Spheroidal weathering | Differential weathering | Erosion | Sedimentary rock |
| Sediments | Deposition | Compaction | Cementation | Strata |
| Stratigraphic sequence | Fossil | Clastic sedimentary rock | Chemical sedimentary rock | Biochemical sedimentary rock |