**Unit 8- Crustal Deformations**

**Objectives and Vocabulary**

**Objectives:**

* Identify the factors that determine the strength of a rock and how it will deform
* Explain how rocks permanently deform
* Distinguish among the types of stresses that affect rocks
* List and differentiate between the three main types of folds and faults
* Predict and justify what type of faults should be most common at a spreading ocean ridge
* Explain how mountains are classified
* Explain the difference between folded mountains and fault-block mountains
* Describe the formation of a dome
* Identify the type of mountains associated with convergent plate boundaries
* Distinguish between mountains formed by ocean-ocean convergence and mountains formed by ocean-continental convergence
* Identify the type of mountains associated with divergent plate boundaries
* Explain how isostatic adjustment is involved in mountain formation
* Predict how the accretion of a large microcontinent would affect the isostatic adjustment of the region around a mountain range

**Vocabulary:**

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| Deformation | Stress | Strain | Anticline | Syncline |
| Monocline | Normal fault | Reverse fault | Thrust fault | Strike-slip fault |
| Accretionary wedge | Accretion | Terrane | Isostasy | Isostatic adjustment |