**Science Study Guide- Constructive and Destructive Forces**

S5E1. Obtain, evaluate, and communicate information to identify surface features on the Earth caused by constructive and destructive processes.

a. Construct an argument supported by scientific evidence to identify surface features (examples could include deltas, sand dunes, mountains, volcanoes) as being caused by constructive and/or destructive processes (examples could include deposition, weathering, erosion, and impact of organisms).

b. Develop simple interactive models to collect data that illustrate how changes in surface features are/were caused by constructive and/or destructive processes.

c. Ask questions to obtain information on how technology is used to limit and/or predict the impact of constructive and destructive processes. (Clarification statement: Examples could include seismological studies, flood forecasting (GIS) maps, engineering/construction methods and materials, and infrared/satellite imagery.)

**Key Terms**

* Weathering
* Erosion
* Deposition
* Volcanoes
* Earthquakes
* Levees

**Key Concepts**

* Constructive Forces (building land up ie- Deposition, Volcanoes, Earthquakes) vs Destructive Forces (breaking land down ie- Erosion, Weathering, Volcanoes, Earthqukes, Landslides, Tsunamis).
* Understand that Volcanoes and Earthquakes can be both constructive and destructive.
* How does the increase of force by wind and water impact land?
* What causes Earthquakes and Volcanoes (be able to explain plate movement).
* What fault lines are and how scientists use these to predict earthquakes.
* How Mountains are created (be able to explain the process of when the plates collide)
* Why are levees created?
* What tool do seismologists use to measure Earthquakes?
* What do Earthquakes in the ocean cause? (Tsunamis)