**December 16 or 17: Day 3: Turning Points**: *Earth Systems Background*

**Standards:**

**ELA:**

* **RI.5.7** – Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently.

**SCIENCE:**

* **5-ESS2-1 -** Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.

**Objectives:**

**Content:**

* I will brainstorm how the spheres interact.

**Literacy:**

* I will use multiple digital sources to learn about the four different earth systems.

**Grammar**: (10 minutes)

**Opening/Vocabulary:** (10 minutes) (see PowerPoint) \*\*Have students start a 3-column table for note-taking/vocabulary. Column 1: word, Column 2: definition, Column 3: picture/symbol to represent word \*\*

* Introduce the four systems of the earth: Geosphere, Biosphere, Hydrosphere, and Atmosphere.

**Main skill:** (60 minutes)

* Use this website to help students investigate and begin thinking about the interactions of Earth’s Systems. (Only steps/slides 1-6) [**https://www.classzone.com/books/earth\_science/terc/content/investigations/es0103/es0103page02.cfm**](https://www.classzone.com/books/earth_science/terc/content/investigations/es0103/es0103page02.cfm)
* Have students get in pairs and research ONE (or more) of the following events:
  + Acid Rain, Amazon deforestation, wildfires, drought, flooding, Hurricane Katrina, Tsunami, Tornadoes, Volcanoes.
* Students will research the event and the spheres involved, and explain how the spheres involved interact with one another.
* Students can put information in a PowerPoint, Prezi, or other presentation medium.

**Closing/Quick Writing:** (5 minutes)

* Share with their partner the most interesting thing they learned.
* Share what the four types of spheres are and an example of how they interaction and why they are necessary.

Website/Article suggestion for research on events:

* <http://www.csun.edu/science/books/sourcebook/chapters/8-organizing/files/earth-systems-interactions.html>
* *Earth Systems and Interactions Document*