Project Sheet Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Earth Systems Science Lithosphere Performance Task

Essential Question

How are the current locations of geographic landforms affected by plate tectonics?

Performance Task

Compare the geographic landforms of two different regions. You will be given a geological map of New England. You will then select another part of the world to compare, geographically, to New England. Using evidence to support your reasoning, answer the Essential question.

Assignment

You will write a comparative analysis paper comparing New England and a region of your choice.

Part 1:

Complete comparison chart and/or a Venn diagram to begin your comparison.

Part 2:

Write a general description of each region with respect to plate boundaries. Reference observations from your maps as evidence.

1. What is the proximity to plate boundaries in each region?
2. What type(s) of boundaries exist in each region?
3. In what direction and at what rate are the plates moving?

Part 3:

Explain what you would expect for earthquake activity of each region. This is based on geographic location with respect to plate boundaries and recent earthquake activity.

1. What patterns do you notice in respect to frequency?
2. What patterns do you notice in respect to magnitude?
3. What patterns do you notice in respect to the depth of earthquakes? \*Honors

Part 4:

Explain what you would expect for volcanic activity of each region. This is based on geographic location with respect to plate boundaries and recent volcanic activity.

1. What is the frequency of eruptions?
2. What is the duration of eruptions?

**Final Assessment**: Based on your research and maps, write a comparative analysis paper comparing the two regions and answering the essential question. Use evidence from parts 1-4 to support your work. Be sure to describe the causal relationships and use scientific language in your response.… This should be a typed one page summary.