

Laboratory Investigation DUE 3/4/14

CHAPTER 3 ■ Plate Tectonics

Summative

Mapping Lithospheric Plates

Problem

How are the locations of the Earth's volcanoes, earthquakes, and mountain ranges related to the locations of the lithospheric plates?

Materials (per student)

colored pencils (black, red, brown, green)

paper

chapter maps

Label plate
black

*Colors are your choice

Procedure

1. Draw with a red pencil the Ring of Fire on the world map ~~on page 90~~. Also draw the other earthquake and volcano zones. Pg. 48, 66
2. Shade in the general boundaries of the world's mountain ranges with a brown pencil. Be sure to include the Himalayas, Alps, Andes, and Rockies. Pg 61 Figure 3-9 Pg 66
3. Draw in with a green pencil the boundaries of the seven lithospheric plates as well as the boundaries of the Arabian and Caribbean plates. Label each plate. Pg 65

*Complete sentences - NO it, they, because, and your own colors

Observations

1. What is the relationship of the Ring of Fire to the Pacific plate? _____
2. Where are the most earthquakes, volcanoes, and mountains located in relation to the lithospheric plates? _____

Analysis and Conclusions

1. From the map you have made and the information in this chapter, how can you explain the apparent relationships between the lithospheric plates and the occurrence of earthquakes, volcanoes, and mountain ranges? _____