Video Exercise – Regional Physiography and Geomorphology of the U.S.

Watch the regional geology of the U.S. video and answer the following questions.

1. What is a physiographic province?

2. How many physiographic provinces are recognized by geologists in the United States? How many major?

3. What kind of rock forms an escarpment?

4. Give a generalized geologic history of the Appalachian province.

5. The Cordilleran Region is generally defined as what size and location of the United States?

6. How did the relief and folded structure of the Cordilleran form?

7. The Colombia Plateau was formed by what geomorphic event?

8. What large identifiable geologic feature is located within the Colombia Plateau?.

9. What meaning does the name Great Basin give this province concerning the regional hydrology?

10. Compare and contrast the elevations and process forming the high points of the Sierra and Cascade mountain regions.

11. Where is the most active area of the Cordillera located?

12. Name a well known, active fault in California.

12. What types of geological surface features indicate geothermal energy within the ground?

13. What is the gradient of the Great Plain Region? (Use external resources)

14. What is the general geologic history of the Atlantic coastal plane? What was is its previous landform/facie?

15. What is the elevation and name of the highest point in Western North America?

16. What is permafrost? Describe solifluction.

17. Explain the existence and formation of the Hawaiian island chain.

18. Compare the East and West coast continental shelves? What difference in process causes these differences?

19. Are all rocks created equally? Explain how lithology, formation, and structure can influence and/or alter the mechanical properties of rocks.