

A MR. C SPECIAL ASSIGNMENT: USING INTERACTIVE GEOPHYSICAL ANIMATIONS TO EXPLAIN THE FORMATION OF U.S. TOPOGRAPHY!!!

- **DIRECTIONS:** Go to the website
http://www.iris.edu/hq/programs/education_and_outreach/animations/interactive
- Under “Interactive Animations” explore each module. (Note: You may need to download flashplayer). Answer these questions in order (About 3-4 sentences each please!):
 - 1) Identify five of the largest earthquakes in recent history. What were the physical effects and toll on human life?
 - 2) In geophysical terms, explain how plate tectonics, earthquakes and volcanoes relate. Identify 5 areas of the world where these three processes have worked together.
 - 3) How are earthquakes located?
 - 4) Identify the names of all tectonic plates. Which plate(s) is North America located on?
 - 5) How are plate tectonics effecting the physical landscape of the Great Basin and Range? What about our National Parks?
 - 6) How are earthquakes impacting the physical geography of the Great Basin and Range? Identify and explain several examples.
 - 7) How are volcanoes impacting the physical geography of the Great Basin and Range? Identify and explain several examples.
 - 8) What is the Long Valley Caldera and how was it formed?
 - 9) THIS RESPONSE WILL REQUIRE A MUCH LONGER RESPONSE (HOW MANY SENTENCES WILL IT TAKE?) Identify several tectonic similarities between Japan, the Pacific Northwest U.S., Sumatra and Chile. Explain how these processes have shaped these physical landscapes and have had devastating results on human life. List and explain specific examples.