

Tiered Assignment

Earthquakes and Volcanoes

Name _____

Objective	Red Level	Yellow Level	Blue Level
Points Possible	Up to 7	Up to 8	Up to 10
1. Explain the cause of earthquakes	Draw 1 picture or diagram that shows the cause of earthquakes. Explain the cause underneath.	Create an essay question and answer this question about the causes of earthquakes.	Write a newspaper article examining the cause of earthquakes. Connect to your knowledge of faults/stress.
2. Compare the three major types of seismic waves. Be able to label an earthquake's epicenter, focus, fault, and seismic waves.	Read pages 34-36. Draw diagrams 2-4 and 2-5 from your book. Answer questions 2&3 on page 39.	Follow the procedures in the folder to draw and label an earthquake and its waves. Explain how this works. In addition, do the activity Graphing the Speed of a Tsunami on page 36.	After reading "Measuring Earthquakes" on pp 5-6 of Earthquakes in Missouri, Design a flip-book to answer the objective stated in number 2. Explain your answers fully. Be dazzling!!
3. Explain how a seismograph works. Describe how scientists predict earthquakes.	Find your vocab words that deal with this subject and define them. Watch the laser disk entitled "Rock and Roll" to learn more about this topic and answer questions about this.	Answer the objective question and read the news article on the New Madrid Fault . Answer questions about this article. The article is found in "Earthquakes in Missouri"	You are looking into the future! Create something new to measure earthquakes. Give an explanation how your design works and include the current research from this objective.
4. Discuss what is meant by the Ring of Fire. Name some countries in the Mediterranean area that have violent earthquakes. Discuss what scientists believe about the occurrence of so many earthquakes in the middle of the Atlantic Ocean.	Using a world map, conduct the experiment from page 50 . Answer the analysis and conclusion questions.	Using a world map, conduct the experiment from page 50 . Answer the analysis and conclusion questions. In addition, connect his new knowledge to previous chapters.	You are a wizard! After viewing the laser disk entitled " Why Worry " on the Ring of Fire, and other areas of major earthquakes, look into your crystal ball and make a prediction as to the position of the world millions of years from now. Make sure your guess is "educated". ☺ Be dazzling ☺
5. Know safety precautions when discussing earthquakes. The brochure Earthquakes in Missouri will be helpful...pp 14	Show your house plans and design a set of procedures to survive an earthquake .	Design a brochure of this school for others to survive an earthquake.	You are the City Mayor. Design your town's emergency plan . Be thorough!

Tiered Assignment

Earthquakes and Volcanoes

Name _____

Objective	Red Level	Yellow Level	Blue Level
Points Possible	Up to 7	Up to 8	Up to 10
6. Describe and be able to label the three types of volcanoes. Also know how the air can be polluted.	Draw the three types of volcanoes. Label them and know facts about each.	Create Volcano Trading Cards. The folder will tell you more, but if you create more than is required, you could jump to the blue level. ☺ (3 minimum) Be dazzling!!	Create 3 Volcano Resumes. You are trying to sell a volcano. Look in the folder to understand the components of this resume. All 3 volcanoes should be included on 3 different resumes.
7. Know the different kinds of particles, products and features of volcanoes.	Create a crossword puzzle using the different products, features and definitions.	Create and explain 6 different features and products of a volcano. Please put this info in an interactive book.	Create models of at least 8 different features or products that come from a volcano. OR create your own lesson here! Approval needed first!
8. <i>Required for Challenge... Xtra Credit for Regular Science</i> Compare and contrast Mt. St. Helens with Kilauea	Draw diagrams of Mt. St. Helens and Kilauea. Include how they are alike and different.	Create a circle book comparing and contrasting Mt.St.Helens with Kilauea volcano.	Create topo maps of both volcanoes and explain the differences. Materials provided.
9. <i>Required for Challenge... Xtra Credit for Regular Science</i> Understand why Hawaii is located where it is and understand a hot spot..	Read literature about hot spots and the location of Hawaii. Write a short report about this paper.	Create a color brochure labeled, using the whole paper provided, on Hawaii's hotspot.	Conduct the Lab entitled "Determining how fast a Lithospheric Plate Moves".
10. <i>Required for Challenge... Xtra Credit for Regular Science</i> Explain disaster prevention for those living in Hawaii.	Write a short report explaining three different processes used for warning people of Hawaii's dangers.	Create a tourist brochure explaining the dangers in Hawaii.	You are a volcanologist on the big island of Hawaii. Create a plan for your island to keep those informed of potential eruptions.
11. <i>Required for Challenge... Xtra Credit for Regular Science</i> Understand the different types of lava and how it is formed.	Your choice, but get approval first!	Your choice, but get approval first!	Your choice, but get approval first!

Tiered Assignment
Earthquakes and Volcanoes

Name _____

--	--	--	--