

Use the Life Science textbook to answer the following questions. Read pages : 234-

1. How is catastrophism different from uniformitarianism? \_\_\_\_\_  
\_\_\_\_\_
2. What was the name of the British geologist that created the most important geological principle, and what was the name of the book he published? What idea did he support? \_\_\_\_\_  
\_\_\_\_\_
3. How did Steven Gould change our understanding of how Earth's surface was shaped? \_\_\_\_\_  
\_\_\_\_\_
4. Can you think of some recent events that would support catastrophism? \_\_\_\_\_  
\_\_\_\_\_
5. Use the Scholastic Magazine app. Read the following article:  
a. Mar 4, 2013 "*I survived a tsunami*". Pages 12 - 15
6. What is Paleontology and how does it contribute to our understanding of Earth's past?  
(a) \_\_\_\_\_  
(b) \_\_\_\_\_  
(c) \_\_\_\_\_
7. Give a real time example of uniformitarianism and a real time example of catastrophism.  
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\_\_\_\_\_  
\_\_\_\_\_
8. Describe physical weathering. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
9. Describe chemical weathering. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
10. Relative Dating - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
11. Superposition helps geologists determine what 2 things? \_\_\_\_\_  
\_\_\_\_\_
12. T / F No single area or history of an area can contain the geological record for all of Earth.
13. If gravity is key to ENTROPY, then which factors cause a disturbance in the rock layers (p.241).  
\_\_\_\_\_  
\_\_\_\_\_
14. Law of crosscutting relationships: \_\_\_\_\_  
\_\_\_\_\_
15. **HOMEWORK:** create a video reflecting a cross section showing relative dating and superposition. Be creative. Video must contain at least 4 rock layers of different color, an intrusion and a fault. For the rock layers, you can use clay, food, or other items to be creative. You may use the stop motion app, explain everything, or iMovie. Your video must be your own and made by you.