**A Whole Lot of Shakin Going On: Earthquakes**

1. What is an earthquake? Define an earthquakes focus & epicenter. Make sure to include a picture. What type of energy does an earthquake produce?

|  |  |
| --- | --- |
|  |  |
|  |  |





|  |  |
| --- | --- |
|  |  |
|  |  |

2. What are the two types of body waves? Describe, in detail, the characteristics of each.



3. How are surface waves different from body waves?





4. Where do most earthquakes take place? Why?

5. Explain what causes an earthquake.



6. The article states that the two earthquakes in Turkey happened along the same fault line. Use context clues to define the term *fault line*.



7. Looking at the picture, Infer why Turkey experiences so many earthquakes. Be detailed!







8. Explain why scientists study earthquakes.



9. Besides strength of an earthquake, explain other factors that help to determine how much destruction an earthquake will cause. Provide examples.

|  |  |
| --- | --- |
|  |  |



10. Describe a strategy used to prevent earthquakes. Why is this strategy unsuccessful?



11. What causes a tsunami? Infer why they are so devastating.

12. Identify 3 explanations for earthquakes that are a bit “shaky.”

|  |
| --- |
|  |
|  |
|  |

13. Can animals sense an upcoming earthquake? What evidence is there?