**Earth Science: Plate Tectonics / Earthquakes &**

**Volcanoes Unit Study Guide**

 **Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block \_\_\_\_\_\_\_\_\_**

What is “Fracking”? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What are 5 advantages and 5 disadvantages to fracking?

Advantages Disadvantages

1. 1)
2. 2)
3. 3)
4. 4)
5. 5)

What is a tsunami? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

There are 4 ways a tsunami can be created. What are they?

1)

2)

3)

4)

Also, be able to calculate Tsunami distances given the formula!!!

Label the faults with the stress and fault type.

******

 A B C

What are the 2 main ways of building large structures in earthquake zones? Also, what are 2 advantages OR disadvantages to each?

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Earthquake Fault Types

|  |  |  |
| --- | --- | --- |
| **Fault Type** | **Type of Stress & Plate Boundary Where It Is Found** | **Picture Showing Movement** |
| **Reverse** |  |  |
| **Normal** |  |  |
| **Strike-Slip** |  |  |

 Define, through pictures: Compression Tension Shear

TYPES OF VOLCANOES

Directions: Below, indicate the type of lava associated with each type of volcano, the type of eruption, draw a picture of the volcano and label the lava part and cinder part of each.

Type of Lava: MAFIC (thin, low silica, flows easily) or FELSIC (thick, high silica, flows slowly); or BOTH.

Type of Eruption Quiet or Explosive or BOTH

 Tuff Cone/Cinder Cone Composite Shield

Type of Lava \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Type of Eruption \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_