|  |  |  |
| --- | --- | --- |
| Name: | Class: | Date: |

**9.2 Earthquakes:**

An earthquake is the shaking of the ground caused by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

* The rock of Earth’s crust is under pressure as they move
* When this pressure becomes too much, the rocks \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* This occurs at a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

There are three types of faults:

|  |  |  |
| --- | --- | --- |
| Normal Fault | Reverse Fault | Strike slip or Transform Fault |
|  |  |  |
| Stress/tension description | Stress/tension description | Stress/tension description |
|  |  |  |

Types of Seismic Waves:

When an earthquake occurs, three types of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ are released.

1. Primary waves (or P waves) travel the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of all the waves. They can pass through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Secondary waves (or S waves) travel more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than P waves. S waves can only pass through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Surface waves are the most \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of all waves and their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, (like that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_), cause the most damage.

Locating an Earthquake:

You can determine the location of an earthquake by measuring the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, (the greater the distance, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the earthquake is.)

Measuring Earthquakes:

* Scientists use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to measure earthquakes
* Measurements of magnitude (or strength) are recorded using the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tsunami:

Occur when an earthquake occurs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and a large amount of water is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and a large wave is produced that can break on the shore.

Liquefaction:

Earthquakes can also cause liquefaction meaning that soil acts \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.