**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd. \_\_\_\_\_\_\_\_**

**Earthquakes and Volcanoes Slotted Notes**

**Defining Earthquakes**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and trembling of the earth’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The waves travel in \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* More than \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occur a year or \_\_\_\_\_\_\_\_ every 30 seconds.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the most common cause.
* Earthquakes continue until all the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is used up.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- earthquake on the \_\_\_\_\_\_\_\_\_\_ floor and causes waves to become greater than 20 meters high.

**Seismic Waves**

* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** - \_\_\_\_\_\_\_\_ground point of origin of an earthquake.
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** - \_\_\_\_\_\_\_ground of origin; most violent shaking occurs at the epicenter.
* The \_\_\_\_\_\_\_ main types of seismic waves are: P waves, \_\_\_\_\_ waves, and L waves.

**P Waves**

* \_\_\_\_\_\_\_\_\_\_\_\_\_ waves
* Arrive \_\_\_\_\_\_\_\_\_\_\_ at the epicenter
* Can travel through \_\_\_\_\_\_\_\_\_\_\_\_\_\_, liquids, and \_\_\_\_\_\_\_\_\_\_\_\_\_
* They are \_\_\_\_\_\_\_\_-\_\_\_\_\_\_\_\_\_\_ waves. (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Waves)

**S Waves**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ waves
* Can travel through solids, but ***\_\_\_\_\_\_\_\_\_*** through liquids and gases
* Move in \_\_\_\_\_-\_\_\_\_\_\_\_\_\_\_\_\_\_\_ motion (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Waves)

**John Milne – 1893**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-measures and detects seismic waves
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- Paper record of waves
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- scientist who study earthquakes
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- a scale that allows scientists to determine earthquake strength based on many readings
* 1-10 levels at which an earthquake is measured on amount of damage caused; Above a 6 is very destructive

**Volcanoes**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- place on Earth’s surface that allows \_\_\_\_\_\_\_\_\_\_\_\_ and other material to erupt
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_ - found \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the Earth’s surface, it is liquid rock
* \_\_\_\_\_\_\_\_\_\_\_- magma that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the Earth’s surface

**Volcanic Fragments**

* Volcanic \_\_\_\_\_\_\_\_\_\_\_\_\_ - less that \_\_\_\_\_\_\_\_\_\_ mm in diameter (ex. Flour particle size)
* Volcanic \_\_\_\_\_\_\_\_\_\_\_- more than \_\_\_\_\_\_\_ less than \_\_\_\_\_ mm (Ex. Rice particle size)
* Volcanic \_\_\_\_\_\_\_\_\_\_\_\_\_- few cm to \_\_\_\_\_\_\_\_\_\_\_ meters.
* \_\_\_\_\_\_\_\_\_\_\_\_- volcanic bombs the size of golf balls.

**Types of Volcanoes**

* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**- made of mostly of cinders; formed from explosive eruptions
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**- Made of quiet lava flows
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**- made up of alternating layers of rock particles; explosive eruptions, then quite lava flows.

**Volcano Terminology**

* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**- funnel shaped pit, or depression at top of volcano
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**- when a crater becomes too large, it collapses: also can form when the top of a volcano collapses or explodes
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**- sleeping volcano
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**- not known to have erupted in modern history
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**- Erupts fairly regularly