**Volcanic Vocabulary**

1.**Viscosity – stickiness / Liquids** with higher viscosity, like honey, flow slower than those with lower viscosity, like water. This property is influenced by factors such as temperature, pressure, and the type of fluid

1. **Volcanology** the study of volcanoes, lava, magma and related sciences

**3. Cinder Cones** Small, cone-shaped mounds of ash and rocks

**4. Composite Volcano** (Stratovolcano) Tall, steep, and built from layers of lava and ash.

**5. Shield Volcano** Large and gently sloped, formed by flowing lava

**6. Lava Domes /** Sticky, thick lava that forms a dome shape.

**7. Active Volcanoes** A volcano that is currently erupting or has erupted in historical time. Kīlauea in Hawaii, Mount Etna in Italy, and Mount Stromboli in Italy.

**8. Dormant Volcanoes** A volcano that is not currently erupting but is expected to do so in the future.  These can be "restless" systems with signs of heat and magma activity.  Mount Rainier in the U.S. and Mount Kilimanjaro in Tanzania are considered dormant.

**9. Extinct Volcanoes** A volcano that is not expected to erupt again.  Their magma supply has been cut off due to factors like tectonic plate movement, and they show no signs of volcanic activity. Capulin Volcano in the U.S.

***This is not the only information you will need for the final test. We will also study the parts of volcanoes and create models of different types of volcanoes. Many interesting details may come up during our class. Please stay focused and be engaged in the learning. You will do an amazing job!!!***

***Notes from class***

***Please understand, everything and anything from class may be part of your assessment. Please focus in and pay attention.***

***9/2/2025***

* ***There are 1500 active volcanoes in the United States.***
* ***The 169 active volcanoes in USA are mostly in Alaska and Hawaii. About 13 are in the Cascades- Oregon, Washington and California.***
* ***Mt. St. Helen erupted in 1980 killing 57 people in Washington State. The volcano had been dormant for more than 100 years before it erupted in 1980. No one knew it was about to erupt in 1980. It is still ACTIVE***
* ***75% of All volcanoes around the world are in the oceans.***
* ***Life can exist in volcanoes. Remember the hammerhead and silky sharks.***
* ***Hardened lava is call pumice.***
* ***Volcanoes are unpredictable***

***9/3/2025***

**Pompeii**

The volcano that destroyed Pompeii was a stratovolcano, also known as a composite volcano. It happened almost 2,000 years ago. A very wealthy city was destroyed by ash so quickly that the city was preserved in time.

**Yellowstone National Park sits on a Supervolcano**

Blew up 640,000 years ago. The ash can be found all over the United States. The CALDERA is 45 miles wide. A CALDERA is a large crater caused by the collapse of the mouth of the volcano. Yellowstone’s explosion 640,000 years ago was at least 1000 times greater than the Mount Saint Helen’s eruption in 1980.

There are 11 SUPERVOLCANOS in Earth’s history.

**Shield Volcano**

Very large and flat Gentle Giants. The lava is so highly viscous, or slow moving, that there is plenty of time to escape. These volcanos do not usually cause deaths. Lots of property damage due to lava flow. Hawaii is made up of shield volcanoes

**Cinder Cone**

Baby volcano or mini volcano. Often develops in the CALDERA or huge crater of other volcanoes. Very short lived-maybe days to year. Not active very long. Shortest of the three.