**MARS’ GEOSPHERE**

1. Open Google Earth and find the Mars-Earth Comparison folder.
2. If you are not already there, switch to Google Mars.
3. Maximize the the following folders: (1) “Geosphere” (2) “Volcanoes”

and (3) “MARS”

1. Double click on “Olympus Mons” and on “Olympus Mons side view.”

* **Sketch the volcano in the box below:**

*side view*

*top view*

* **Olympus Mons is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ km tall, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ km wide.**

1. Double click on “Tharsis Region”

* **The three main volcanoes of the Tharsis Region are:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* Volcanoes on Mars are the largest in the Solar System - Olympus Mons is 600 km (373 miles) wide, and 21 km (13 miles) tall. **How do you think a volcano can get so big?**

**EARTH’S GEOSPHERE**

1. Switch to Google Earth and double-click on the “EARTH” subfolder.
2. Double click on “Mt. Fuji” and on “Mt. Fuji side view.”

* **Sketch the volcano in the box below:**

*side view*

*top view*

* **Mt. Fuji is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ km tall, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ km wide.**

1. Double click on “Arenal Volcano”

* **What does a volcano need to stay active?**
* **How can you tell Arenal Volcano is active?**

1. Double click on “Eyjafjallajökull Volcano, Iceland”

* **What are the main materials coming out of this volcano?**
* **What is the main difference between Earth’s and Mars’ volcanoes?**

1. Double click on “Pacific Plate” in the “Plate Tectonics” folder.

* **Outline the boundary of the Pacific Plate in the map below:**

|  |
| --- |
| Pacific_elevation |

1. Double click on “Himalayas”

* **What prominent feature resulted from the collision of the Indian and Eurasian Plates?**
* **Did you see trenches (like those around the Pacific Plate) or mountain ranges (like the Himalayas) on Mars? What does that tell you about Mars?**