

Name _____

Volcanoes Beyond Earth: Exploring Volcanic Activity on Other Planets

Multiple Choice Questions

1. Which planet is home to Olympus Mons, the largest volcano in the solar system?
 - a. Earth
 - b. Mars
 - c. Venus
 - d. Jupiter

2. How does the height of Olympus Mons compare to Mount Everest, Earth's tallest mountain?
 - a. Olympus Mons is shorter than Mount Everest.
 - b. Olympus Mons is approximately the same height as Mount Everest.
 - c. Olympus Mons is nearly three times taller than Mount Everest.
 - d. Olympus Mons is half the height of Mount Everest.

3. What causes Io, one of Jupiter's moons, to be the most volcanically active body in the solar system?
 - a. Tidal forces generated by Jupiter's gravity
 - b. Extreme temperatures
 - c. Solar radiation
 - d. Underground water reservoirs

4. What is the main reason behind Io's constant volcanic activity?
 - a. Its proximity to Jupiter
 - b. High levels of carbon dioxide
 - c. Frequent meteor impacts
 - d. Strong magnetic fields

5. Which planet, often referred to as Earth's "sister planet," has numerous volcanoes on its surface, including Maat Mons?
 - a. Mars
 - b. Venus
 - c. Mercury
 - d. Saturn

