

Homework #9  
AS101 Summer 2006  
Dr. Withers

Assigned: 2006.06.13  
Due: 2006.06.14, start of class

1) Read Chapter 9

2) Purpose: Understand why different planets have different geological histories.  
The most important factor that affects a planet's geological history is:

- A) Thickness of its atmosphere
- B) Number of moons
- C) Distance from the Sun
- D) Planetary size

3) Purpose: Think about the four major geological processes

Which of the four major geological processes discussed in class is actually a collection of different, but related, processes?

4) Purpose: Understand how the effects of volcanism differ between the planets  
The surfaces of which of these bodies show evidence for past volcanic activity?  
(Moon, Mercury, Mars, Venus, Earth)

5) Purpose: Understand plate tectonics.

Which of the following is not a consequence of plate tectonics?

- A) Similarities between fossils, rock types, and shorelines in Africa and South America
- B) Chemical differences between seafloor crust and continental crust
- C) The Grand Canyon in Arizona
- D) Earth is the only planet where stratovolcanoes are common