

Name: _____
Date: _____
Period: _____

Open Response – Planetary Characteristics

Use the chart below to help answer the open response question below.

	Mercury	Venus	Earth	Mars	Jupiter	Saturn	Uranus	Neptune	Pluto
Distance from Sun (million miles)	36	67	93	142	483	886	1783	2794	3666
Diameter of Planet (miles)	3031	7521	7926	4217	88730	74900	31763	30775	1430
Mass of Planet (times earth mass)	0.05	0.81	1.00	0.11	317.83	95.18	14.53	17.13	0.002

1. Suppose that two new planets have been discovered
 - Planet Q is located between Venus and earth and is about the same size as both Venus and earth.
 - Planet Z is located between Saturn and Jupiter and is about the same size as Saturn.
 - a. Based on your knowledge of the solar system, **describe three differences** in conditions you would expect to find on planets Q and Z.
 - b. **Explain why** you would expect to find these conditions on each of the planets.