Name: Period:

**GRAPHING THE PROPERTIES OF THE PLANETS**

After completing your graphs, use them and the original data table to answer the following questions.

1. What is the difference between a planet’s period of rotation (rotation period) and its period of revolution (orbital period)?
2. What is the relationship between the diameter of a planet and the mass of a planet?
3. Does there seem to be a relationship between the mass of a planet and the gravity of a planet? Explain.
4. Does there seem to be a relationship between the gravity of a planet and the number of moons a planet has? Explain.
5. What is the relationship between the distance a planet is from the Sun, and its period of revolution?
6. What is the relationship between the distance of a planet from the Sun, and its orbital velocity?
7. Does there seem to be a relationship between a planet’s distance from the Sun and its period of rotation? Explain.
8. As the distance of a planet from the Sun increases, what happens to its temperature? Which planet is an exception?
9. How does the density of the four inner planets compare to the density of the four outer planets? Why?
10. If there were an ocean big enough, which planet could float in it? How do you know?