

# Our Solar System

## Practice Your Understanding

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. When using the Solar System Simulation, what laws of physics that we have already seen before, are related here? Record your answer below:

2. Using the law you wrote down in Problem 1, what do you notice about the relation of distance and velocity between each of the planets and the sun? Record your answer below:

3. How does the distance between planets and the sun play a role in the planet's acceleration? What about the acceleration of the moons around planets? Why do the moons rotate around the planets faster than the planets themselves rotating around the Sun? What forces are acted on the planet and what forces do the planets and moons exert on each other? Record your answer below: