

A model of a planetary system

NAME _____

Student Learning Objectives

1. Understand Kepler's Laws of orbital motion.
2. Discover how the distance and planet's tangential speed affects the shape of the orbit.
3. Measure the change in orbital period as distance is increased.
4. Apply concepts relating to Kepler's Laws to speculate conditions that lead to a stable planet environment for evolution of life.

Lab simulation time: 40 minutes

This is a "virtual lab". We will do an experiment using a simulation which can be found at PhET:

https://phet.colorado.edu/en/simulations/try?sim=solar-system-lab&sim=solar-system_en.html

Click the "Lab" button on the right to select it, then again to open it.

[Note that this simulation utilizes sonification (non-speech audio to convey information or perceptualize data). To experience this, make sure you have the volume on your computer on.]

0) Play with this simulation and "mouse" around with it. Try to figure out what all the controls do.

- 1) **Using the drop-down menu at the upper right, select "Sun and Planet".**
 - **Then, select Path and Grid.**
 - **Reset the simulation to the default settings by clicking on the orange reset button at the bottom right.** 

Determine responses to the questions below by running the simulation.

a) At lower left, click the "More Data" box. What are the preset values for: the mass of the yellow star, the mass of the pink planet, the distance (position X for the pink planet), and the velocity (Vy for the yellow star and pink planet)?

b) Describe the shape of the orbit.

c) How does the distance and planet tangential speed affect the shape of the orbit? (Distance and tangential speed for the planet can be changed by editing the position X box for the pink planet and the velocity Y box for the pink planet and/or yellow star. Click on the box and enter a different number using the pop-up number pad.)

- 2) **Reset the simulation by clicking the orange reset button at the bottom right.** 

IMPORTANT: Set the masses of the yellow sun and pink planet and the velocity of the yellow star and pink planet to the initial values you noted in step 1 above. Now, set the distance between the star and planet (Position X for pink planet) to 1. Leave the velocity

My Solar System Lab Worksheet Answers

L Darling-Hammond



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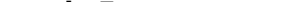
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