

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/simulation/phet-solar-system-lab?sim=solar-system-lab>

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 (V_y 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 star 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

Terry C. Jones



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Rinehart & Winston, 2007

Manual, Grade 5, 1999-04-22 Scott Foresman Science 2000 components for Grade 5

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Department of Housing and Urban Development--independent agencies appropriations for 1983 United States. Congress. House. Committee on Appropriations. Subcommittee on HUD-Independent Agencies, 1982

Teacher's Guide to Using the Next Generation Science Standards With Gifted and Advanced Learners Cheryll M. Adams, Alicia Cotabish, Debbie Dailey, 2021-09-23 A Teacher's Guide to Using the Next Generation Science Standards With Gifted and Advanced Learners provides teachers and administrators with practical examples of ways to build comprehensive coherent and rigorous science learning experiences for gifted and advanced students from kindergarten to high school It provides an array of examples across the four domains of science physical sciences Earth and space sciences life sciences and engineering technology and applications of science Each learning experience indicates the performance expectation addressed and includes a sequence of activities implementation examples connections to the CCSS Math and CCSS ELA and formative assessments Chapters on specific instructional and management strategies assessment and professional development suggestions for implementing the standards within the classroom will be helpful for both teachers and administrators

From Order to Chaos Leo P. Kadanoff, 1993 World Scientific has made available a collection of Leo's reviews essays columns and commentaries which is a feast in several senses the strategy and tactics of science the science itself the history of several important developments in science and as a bonus a beautifully illustrated collection of essays on computational science The average reader may find this the final section of the book most interesting but for me the account of his discovery of scaling for which inexplicably he did not receive the Nobel prize is most intriguing Leo's combination of verve frankness and insight makes this a very good read P W Anderson Princeton Univ Publication of this volume will be very useful especially for young readers The papers disseminated over many journals acquire a new quality by being collected together Readers not only can see a result in its final form but also can trace its evolution J Fluid Mechanics 1994 The book is an invaluable source of information and inspiration on a variety of important problems in modern physics EMS 1999

From Order To Chaos Ii, Essays: Critical, Chaotic And Otherwise Leo P Kadanoff, 1999-03-01 This book is a compilation of the review papers expositions and some of the technical works of Leo Kadanoff a theoretical physicist The objective is to put together a group of not too technical writing in which he discusses some issues in condensed matter physics hydrodynamics applied mathematics and national policy This expanded edition is divided into five sections The first

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