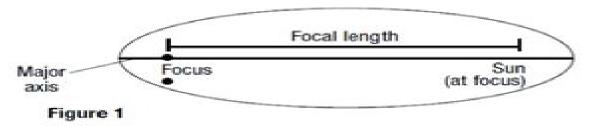
Exploring Orbits Introduction

In 1609, the German mathematician and astronomer Johannes Kepler deciphered a major puzzle of the solar system. The strange back-and forth motions of the planets in the sky were nearly impossible to predict until Kepler figured out the true shapes of the planetary orbits around the sun. Orbits were always believed to be circular, but Kepler used mathematics to discover they were actually elliptical.

An ellipse is an oval that is characterized by two quantities. The first quantity is the width of the ellipse, which is called the major axis. The second quantity is called the eccentricity, which is a measure of how stretched out the ellipse is. Eccentricity is defined by the distance between two mathematically determined points within the ellipse called the foci.

For planets, one focus of their orbital ellipse is the sun. The other is an empty point in space. The orbit of each planet is an ellipse, but each planet's elliptical orbit has different major axes and eccentricities. Once Kepler understood the proper nature of orbits, the movements of the planets in the sky could be predicted with precision.

In this investigation, you will draw ellipses, calculate their eccentricities, observe an interesting property of ellipses, and compare the ellipses you draw with the orbital eccentricities of Earth and other planets in the solar system.



Problem

What do the elliptical orbits of the planets look like?

Pre-Lab Discussion

Read the entire investigation. Then work with a partner to answer the following questions.

Predicting: Each planet's orbit is shaped like an ellipse. Predict whether the shapes of the planet's orbits will be more circular or more elongated.

2. Applying Concepts: What is the one thing that the elliptical orbits of all planets, asteroids, and most comets have in common?

Lab Manual Exploring Orbits

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Lab Manual Exploring Orbits:

Exploring the Universe: A Laboratory Guide for Astronomy Mike D. Reynolds, Michael E. Bakich, 2015-01-01 Astronomy is a fun and challenging science for students This manual is intended for one and two semester astronomy courses and uses hands on engaging activities to get students looking at the sky and developing a lifelong interest in astronomy

Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Orbit** ,1974 **Exploring the Universe** ,1993 Chambers's Encyclopædia: Goo.-Lab ,1880 Chambers's Encyclopædia: GOO to LAB ,1886 The Lincoln Laboratory Journal .1997 El-Hi Textbooks & Serials in Print, 2005, 2005 **Digital Satellite Navigation and Geophysics** Ivan G. Petrovski, Toshiaki Tsujii, 2012-03-29 Bridge the gap between theoretical education and practical work experience with this hands on guide to GNSS which features A clear practical presentation of GNSS theory with emphasis on GPS and GLONASS All the essential theory behind software receivers and signal simulators Key applications in navigation and geophysics including INS aiding scintillation monitoring earthquake studies and more Physical explanations of various important phenomena including the similarity of code delay and phase advance of GNSS signals and negative cross correlation between scintillation intensity and phase variations Whether you are a practising engineer a researcher or a student you will gain a wealth of insights from the authors twenty five years of experience You can explore numerous practical examples and case studies and get hands on user experience with a bundled real time software receiver signal simulator and a set of signal data enabling you to create your own GNSS lab for research or study Monthly Catalog of United States Government Publications ,1961 Laboratory Microcomputer ,1992 Earth Science Eric W. Danielson, 1986 Prentice Hall Scientific Learning System Prentice-Hall Staff,1994 **Astronautics Information Abstracts** Jet Propulsion Laboratory (U.S.).,1960 Medical News and Abstract, 1903 The Medical News .1903 **Government Reports Announcements** Large Space Structures & Systems in the Space Station Era, 1990 El-Hi Textbooks in Print ,1970 & Index ,1995 Includes related teaching materials Canadiana .1980

Whispering the Strategies of Language: An Psychological Quest through Lab Manual Exploring Orbits

In a digitally-driven earth wherever screens reign supreme and instant conversation drowns out the subtleties of language, the profound strategies and emotional subtleties hidden within phrases often get unheard. Yet, set within the pages of **Lab Manual Exploring Orbits** a fascinating fictional prize blinking with natural feelings, lies a fantastic quest waiting to be undertaken. Composed by a talented wordsmith, this charming opus encourages readers on an introspective trip, gently unraveling the veiled truths and profound influence resonating within the cloth of each and every word. Within the mental depths of the touching evaluation, we can embark upon a heartfelt exploration of the book is core themes, dissect their charming publishing model, and fail to the strong resonance it evokes serious within the recesses of readers hearts.

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