

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.

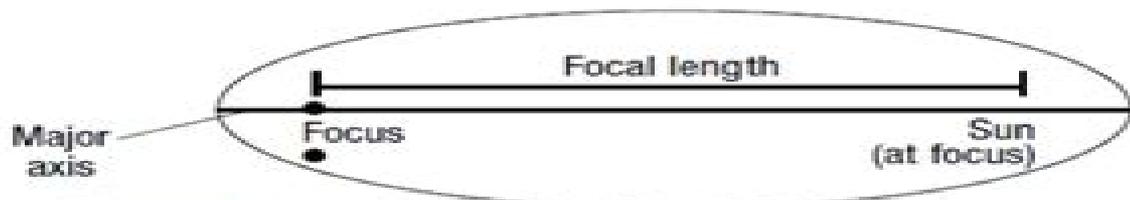


Figure 1

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.

1. 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

JG Myers



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Exploring Zoology: A Laboratory Guide, Third Edition David G. Smith, Michael P. Schenk, 2021-01-01 Exploring Zoology A Laboratory Guide provides a comprehensive hands on introduction to the field of zoology Knowledge of the principal groups of animals is fundamental to understanding the central issues in biology This full color lab manual provides a diverse selection of exercises covering the anatomy physiology behavior and ecology of the major invertebrate and vertebrate lineages Great care has been taken to provide information in an engaging student friendly way The material has been written to be easily adapted for use with any introductory zoology textbook

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 to LAB**, 1886 *Chambers's Encyclopædia: Goo.-Lab*, 1880 *The Lincoln Laboratory Journal*, 1997 *El-Hi Textbooks & Serials in Print*, 2005, 2005

Prentice Hall Scientific Learning System Prentice-Hall Staff, 1994 **Monthly Catalog of United States Government Publications**, 1961 *Laboratory Microcomputer*, 1992 **Astronautics Information Abstracts** Jet Propulsion Laboratory (U.S.), 1960 **Earth Science** Eric W. Danielson, 1986 *Medical News and Abstract*, 1903 *The Medical News*, 1903 **Government Reports Announcements & Index**, 1995 *Resources for Performance-based Education* W. Robert Houston, 1973 **Large Space Structures & Systems in the Space Station Era**, 1990 *El-Hi Textbooks in Print*, 1970 Includes related teaching materials

Reviewing **Lab Manual Exploring Orbits**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Lab Manual Exploring Orbits**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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