

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 Answer Key Exploring Orbits

A Gutmann



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Fundamentals of Orbital Inflammatory Disorders Hadi Khazaei, 2025-05-23 Diseases affecting the orbit and oculofacial region present with a diverse range of clinical manifestations Space occupying lesions within the orbit can arise from infections inflammations vascular malformations or malignancies This variability in presentation is largely attributed to the complex anatomy of the orbit and the diverse nature of the disease processes that often appear as orbital inflammatory disorders This book provides an in depth exploration of orbital inflammatory disorders focusing on their diagnosis and management It includes chapters on cutting edge topics such as tear proteomics orbital and facial ultrasonography AI assisted point of care ultrasonography imaging bioinformatics and precision medicine **Scientific and Technical Aerospace Reports** ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

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 **Nuclear Science Abstracts** ,1963 *Energy: a Continuing Bibliography with Indexes* ,1977 **Computer Supported Collaborative Learning 2005** Timothy Koschmann, 2017-10-03 The Computer Supported Collaborative Learning CSCL conference has become an internationally recognized forum for the exchange of research findings related to learning in the context of collaborative activity and the exploration of how such learning might be augmented through technology This text is the proceedings from CSCL 2005 held in Taipei Taiwan This conference marked the 10th anniversary of the first CSCL Conference held at Indiana University in 1995 Subsequent meetings have been held at the University of Toronto Stanford University University of Maastricht Netherlands University of Colorado at Boulder and the University of Bergen Norway Just as the first CSCL conference was instrumental in shaping the trajectory of the field in its first decade the conference in Taipei will play an important role in consolidating an increasingly international and interdisciplinary community and defining the direction of the field for the next 10 years This volume and the papers from which it is comprised will be an important resource for those active in this area of research and for others interested in fostering learning in settings of collaboration **Cities and Their Vital Systems** Advisory Committee on Technology and Society, 1989 Cities and Their Vital Systems asks basic questions about the longevity utility and nature of urban infrastructures analyzes how they grow interact and change and asks how when and at what cost they should be replaced Among the topics discussed are problems arising from increasing air travel and airport congestion the adequacy of water supplies and waste treatment the impact of new technologies on construction urban real estate values and the field of

telematics the combination of computers and telecommunications that makes money machines and national newspapers possible *Computer Algebra in Scientific Computing* Matthew England, Wolfram Koepf, Timur M. Sadykov, Werner M. Seiler, Evgenii V. Vorozhtsov, 2019-08-15 This book constitutes the refereed proceedings of the 21st International Workshop on Computer Algebra in Scientific Computing CASC 2019 held in Moscow Russia in August 2019 The 28 full papers presented together with 2 invited talks were carefully reviewed and selected from 44 submissions They deal with cutting edge research in all major disciplines of computer algebra The papers cover topics such as polynomial algebra symbolic and symbolic numerical computation applications of symbolic computation for investigating and solving ordinary differential equations applications of CASs in the investigation and solution of celestial mechanics problems and in mechanics physics and robotics **Frontiers in Robotics and AI editor's picks 2024** ,2025-03-12 For the third year in a row we are very happy to offer our readership an ebook of 11 articles that have achieved widespread acceptance within our core audience and beyond This time it concerns articles published in 2024 These papers are among the large number that attained significant interest last year but we selected just 11 which we consider to be the best These articles have already made an impact in the form of original research or comprehensive reviews As the Field Chief Editor I would like to stand alongside our journal staff to honor all authors who contributed very high level papers to the journal last year and are contributing to our success We also thank the editors and reviewers of these papers and of all papers this past year for their invaluable contribution **Discovering the Universe** William J. Kaufmann, Neil F. Comins, 2008-12-26 *Discovering the Universe From the Stars to the Planets* engages students with an inquiry based exploration of the universe and the scientific process Developed with a big picture approach the text first explains how the stars the galaxies and the entire universe formed and then discusses planets and other components of our solar system Students follow this natural conceptual progression within a proven learning method designed to address misconceptions and build a deep understanding of science and the world around us McDougal Littell Science McDougal Littell Incorporated, 2005 *U.S. Government Research & Development Reports* ,1967 **Energy Research Abstracts** ,1993 **The Budget of the United States Government** United States, 2004 **WIPO Technology Trends** ,2025-02-06 The WIPO Technology Trends report on the Future of Transportation dives into the transformative changes reshaping the transportation sector The report based on patent data and scientific literature data complemented by business information policy regulation and standards data looks at transportation technologies and trends across land sea air and space It identifies four primary technology trend clusters Sustainable Propulsion Automation and Circularity Communication and Security and Human Machine Interface technologies representing the critical areas of innovation crucial to the future of transportation The report also considers the current and future applications of technologies in the transportation sector *Space Science: Teacher's ed* ,2005 **Jacaranda Science Quest 10 Victorian Curriculum, 3e learnON and Print** Graeme Lofts, 2025-12-03 **Jacaranda Science 10**

for Western Australia, 5e LearnON and Print Jacaranda,2025-10-10 *Technology for Large Space Systems* ,1979
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



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





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