

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.

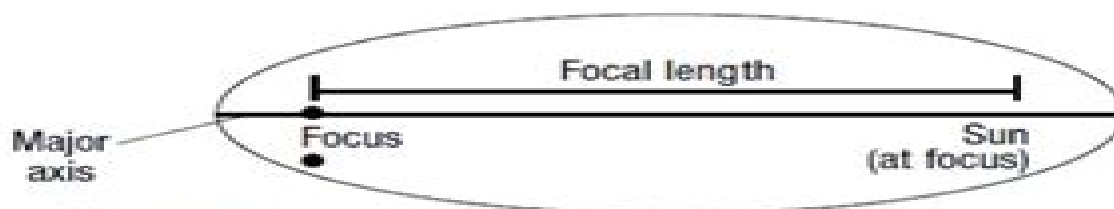


Figure 1

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

RJ Shavelson



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Table of Contents Lab Manual Exploring Orbits

1. Understanding the eBook Lab Manual Exploring Orbits
 - The Rise of Digital Reading Lab Manual Exploring Orbits
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab Manual Exploring Orbits
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lab Manual Exploring Orbits
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lab Manual Exploring Orbits
 - Personalized Recommendations
 - Lab Manual Exploring Orbits User Reviews and Ratings
 - Lab Manual Exploring Orbits and Bestseller Lists
5. Accessing Lab Manual Exploring Orbits Free and Paid eBooks
 - Lab Manual Exploring Orbits Public Domain eBooks
 - Lab Manual Exploring Orbits eBook Subscription Services
 - Lab Manual Exploring Orbits Budget-Friendly Options

6. Navigating Lab Manual Exploring Orbits eBook Formats
 - ePub, PDF, MOBI, and More
 - Lab Manual Exploring Orbits Compatibility with Devices
 - Lab Manual Exploring Orbits Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab Manual Exploring Orbits
 - Highlighting and Note-Taking Lab Manual Exploring Orbits
 - Interactive Elements Lab Manual Exploring Orbits
8. Staying Engaged with Lab Manual Exploring Orbits
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab Manual Exploring Orbits
9. Balancing eBooks and Physical Books Lab Manual Exploring Orbits
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab Manual Exploring Orbits
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Lab Manual Exploring Orbits
 - Setting Reading Goals Lab Manual Exploring Orbits
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Lab Manual Exploring Orbits
 - Fact-Checking eBook Content of Lab Manual Exploring Orbits
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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- Interactive and Gamified eBooks

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