

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.

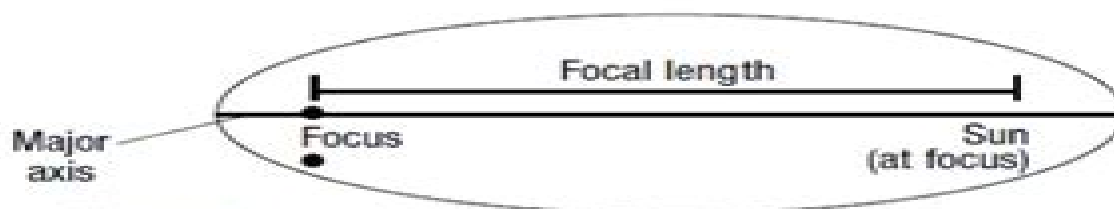


Figure 1

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? _____

Exploring Orbits Lab Answer Key Earth Science

Christian G. Meyer



Exploring Orbits Lab Answer Key Earth Science:

Reviewing **Exploring Orbits Lab Answer Key Earth Science**: 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 really astonishing. Within the pages of "**Exploring Orbits Lab Answer Key Earth Science**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Table of Contents Exploring Orbits Lab Answer Key Earth Science

1. Understanding the eBook Exploring Orbits Lab Answer Key Earth Science
 - The Rise of Digital Reading Exploring Orbits Lab Answer Key Earth Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Exploring Orbits Lab Answer Key Earth Science
 - 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 Exploring Orbits Lab Answer Key Earth Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exploring Orbits Lab Answer Key Earth Science
 - Personalized Recommendations
 - Exploring Orbits Lab Answer Key Earth Science User Reviews and Ratings
 - Exploring Orbits Lab Answer Key Earth Science and Bestseller Lists

5. Accessing Exploring Orbits Lab Answer Key Earth Science Free and Paid eBooks
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 - Highlighting and Note-Taking Exploring Orbits Lab Answer Key Earth Science
 - Interactive Elements Exploring Orbits Lab Answer Key Earth Science
8. Staying Engaged with Exploring Orbits Lab Answer Key Earth Science
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Exploring Orbits Lab Answer Key Earth Science
9. Balancing eBooks and Physical Books Exploring Orbits Lab Answer Key Earth Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Exploring Orbits Lab Answer Key Earth Science
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Exploring Orbits Lab Answer Key Earth Science
 - Setting Reading Goals Exploring Orbits Lab Answer Key Earth Science
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Exploring Orbits Lab Answer Key Earth Science
 - Fact-Checking eBook Content of Exploring Orbits Lab Answer Key Earth Science
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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