

### 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.

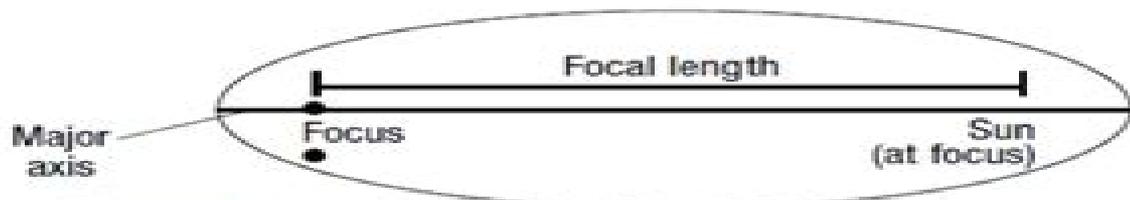


Figure 1

#### 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

**United States. Department of the  
Army**



## Lab Answer Key Exploring Orbits:

*Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science*, 2003-11  
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## **Table of Contents Lab Answer Key Exploring Orbits**

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

- Lab Answer Key Exploring Orbits and Bestseller Lists
- 5. Accessing Lab Answer Key Exploring Orbits Free and Paid eBooks
  - Lab Answer Key Exploring Orbits Public Domain eBooks
  - Lab Answer Key Exploring Orbits eBook Subscription Services
  - Lab Answer Key Exploring Orbits Budget-Friendly Options
- 6. Navigating Lab Answer Key Exploring Orbits eBook Formats
  - ePub, PDF, MOBI, and More
  - Lab Answer Key Exploring Orbits Compatibility with Devices
  - Lab Answer Key Exploring Orbits Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Lab Answer Key Exploring Orbits
  - Highlighting and Note-Taking Lab Answer Key Exploring Orbits
  - Interactive Elements Lab Answer Key Exploring Orbits
- 8. Staying Engaged with Lab Answer Key Exploring Orbits
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Lab Answer Key Exploring Orbits
- 9. Balancing eBooks and Physical Books Lab Answer Key Exploring Orbits
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Lab Answer Key Exploring Orbits
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Lab Answer Key Exploring Orbits
  - Setting Reading Goals Lab Answer Key Exploring Orbits
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lab Answer Key Exploring Orbits
  - Fact-Checking eBook Content of Lab Answer Key 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
  - Interactive and Gamified eBooks

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