

## Orbital Motion – Kepler's Laws

## Answer Key

**Vocabulary:** astronomical unit, eccentricity, ellipse, force, gravity, Kepler's first law, Kepler's second law, Kepler's third law, orbit, orbital radius, period, vector, velocity

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

*[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]*

1. The **orbit** of Halley's Comet, shown at right, has an oval shape. In which part of its orbit do you think Halley's Comet travels fastest? Slowest? Mark these points on the diagram at right.
2. How might a collision between Neptune and Halley's Comet affect Neptune's orbit?

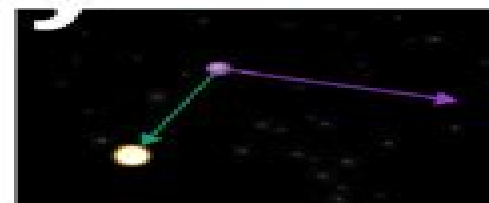
*Answers will vary. [A collision would probably cause a small change in Neptune's orbit, but would not have a drastic effect on Neptune's orbit because Neptune is much more massive than Halley's Comet.]*



### Gizmo Warm-up

The path of each planet around the Sun is determined by two factors: its current **velocity** (speed and direction) and the **force** of **gravity** on the planet. You can manipulate both of these factors as you investigate planetary orbits in the *Orbital Motion – Kepler's Laws* Gizmo.

On the **CONTROLS** pane of the Gizmo, turn on **Show trails** and check that **Show vectors** is on. Click **Play** (▶).



1. What is the shape of the planet's orbit? *An oval*
2. Watch the orbit over time. Does the orbit ever change, or is it stable? *The orbit is stable.*
3. Click **Reset** (↺). Drag the tip of the purple arrow to shorten it and reduce the planet's initial velocity. Click **Play**. How does this affect the shape of the orbit?

*The orbit becomes smaller and more flattened.*

# Explore Learning Gizmo Orbital Motion Answer Key

**Rosina Ehmann**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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## **Table of Contents Explore Learning Gizmo Orbital Motion Answer Key**

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

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