



## SCI 101-Gizmos - Orbital Motion – Kepler’s Laws- answer key-2022

Name: \_\_\_\_\_

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### Student Exploration: Orbital Motion – Kepler’s Laws

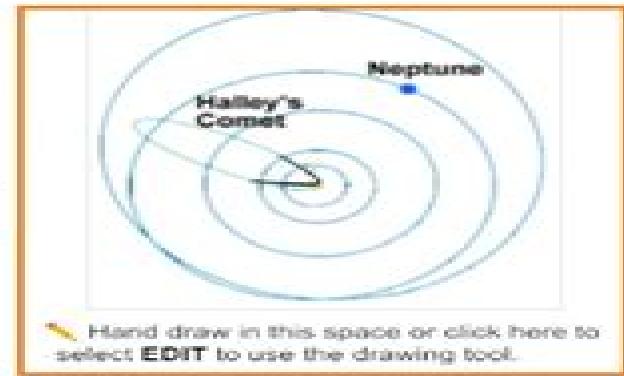
**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**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.)

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?

Halley’s Comet does not have the size or mass to affect Neptune’s orbit at all

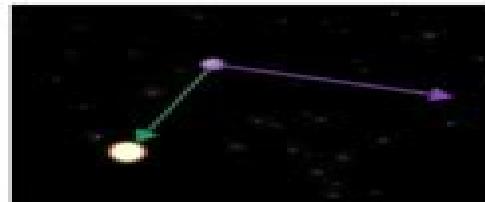


Hand draw in this space or click here to select EDIT to use the drawing tool.

#### 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 ellipse

2. Watch the orbit over time. Does the orbit ever change, or is it stable?

yes

3. Click **Reset** (⟲). Drag the tip of the purple arrow to shorten it and reduce the planet’s initial velocity. Click

# Gizmo Orbital Motion Answer Key

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

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

- Gizmo Orbital Motion Answer Key Public Domain eBooks
- Gizmo Orbital Motion Answer Key eBook Subscription Services
- Gizmo Orbital Motion Answer Key Budget-Friendly Options

6. Navigating Gizmo Orbital Motion Answer Key eBook Formats

- ePUB, PDF, MOBI, and More
- Gizmo Orbital Motion Answer Key Compatibility with Devices
- Gizmo Orbital Motion Answer Key Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Gizmo Orbital Motion Answer Key
- Highlighting and Note-Taking Gizmo Orbital Motion Answer Key
- Interactive Elements Gizmo Orbital Motion Answer Key

8. Staying Engaged with Gizmo Orbital Motion Answer Key

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Gizmo Orbital Motion Answer Key

9. Balancing eBooks and Physical Books Gizmo Orbital Motion Answer Key

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Gizmo Orbital Motion Answer Key

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Gizmo Orbital Motion Answer Key

- Setting Reading Goals Gizmo Orbital Motion Answer Key
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Gizmo Orbital Motion Answer Key

- Fact-Checking eBook Content of Gizmo Orbital Motion Answer Key
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development

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- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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