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Student Exploration: Gravitational Force

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

Vocabulary: force, gravity, vector

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

On the night of a Full Moon, Mary decides to do an experiment with **gravity**. At midnight, she climbs into her backyard tree house, leans out the window, and holds an acorn as high as she can. She lets go and is disappointed to see the acorn plummet back down to Earth.

1. Why did the acorn fall to Earth instead of rising up to the Moon?

The earth has a greater magnitude of gravitational force than the moon, the moon itself is trapped in earth's gravity.

2. Give two reasons why we feel Earth's gravity more strongly than the Moon's gravity.

Since we are quite literally on the surface of the Earth, gravity on the surface would be much stronger than for example in space.

Gizmo Warm-up

From acorns to apples, gravity causes nearly any object to fall to Earth's surface. Gravity also causes the Moon to orbit Earth and Earth and the other planets to orbit the Sun. The *Gravitational Force* Gizmo allows you to explore the factors that influence the strength of gravitational force.



To begin, turn on the **Show force vector** checkboxes for objects A and B. The arrows coming from each object are **vectors** that represent gravitational **force**. The length of each vector is proportional to the force on each object.

1. Move object **A** around. As object **A** is moved, what do you notice about the direction of the two force vectors?

They are parallel to each other and increase/decrease everytime you move the object A around. Object B's arrow moves and points towards Object A, as well as Object A always points to Object B.

2. How do the lengths of the two vectors compare?

They are equal, the two gravitational force vectors react the same way to each other.

3. Drag object **A** closer to object **B**. How does this change the gravitational force between the two objects?

Gravitational Force Gizmo Answer Key

Shasha Hu

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

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Table of Contents Gravitational Force Gizmo Answer Key

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

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