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Date: 10/4/24

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?

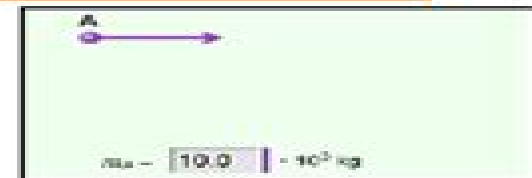
The earth has a greater magnitude of gravitational force than the moon, the moon itself is trapped in earth's gravity.

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?

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Table of Contents Explore Learning Gizmo Answer Key Gravitational Force

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

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