



Name:

Date:

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?

gravity on earth pulls towards the center, so in this case it would fall down closer to the center of the earth

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

we are closer to the earth's center of gravity so we feel it more, and the moon's gravity is less strong so we don't feel it from this far away

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?

always pointed to each other, no matter where you drag it

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

They are equal

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

it gets larger

Answer Key For Gravitational Force Gizmo

M Woodhall



Answer Key For Gravitational Force Gizmo:

Answer Key For Gravitational Force Gizmo Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Answer Key For Gravitational Force Gizmo**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Answer Key For Gravitational Force Gizmo Introduction

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