



Name: _____

Date: _____

Student Exploration: Gravitational Force

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

We are on Earth so the force will always be stronger and the Earth is bigger than the moon

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 stayed together**
2. How do the lengths of the two vectors compare? **The closer they get the longer they'll get**
3. Drag object **A** closer to object **B**. How does this change the gravitational force between the two objects? **It increases them**



Gravitational Force Gizmo Answers

L Manion

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the L Manion text.

Gravitational Force Gizmo Answers:

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Gravitational Force Gizmo Answers**

In a global inundated with monitors and the cacophony of fast connection, the profound energy and mental resonance of verbal beauty frequently disappear into obscurity, eclipsed by the continuous onslaught of noise and distractions. Yet, located within the musical pages of **Gravitational Force Gizmo Answers**, a captivating perform of literary beauty that impulses with fresh emotions, lies an unforgettable journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, that interesting opus books visitors on an emotional odyssey, lightly exposing the latent potential and profound influence embedded within the intricate internet of language. Within the heart-wrenching expanse of the evocative examination, we shall embark upon an introspective exploration of the book is central themes, dissect its charming writing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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