

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 decided to do an experiment with gravity. At midnight, she brings a black cat to the graveyard. She stands next to her favorite headstone, holds the cat in the air, and lets go. The cat falls to the ground, hisses at her, and runs away.

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

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

Gizmo Warm-up

From black cats 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 ~~SSSSSS~~ that represent gravitational forces. 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? _____
2. How do the lengths of the two vectors compare? _____
3. Drag object A closer to object B. How does this change the gravitational force between the two objects? _____

Gizmo Gravitational Force Worksheet Answers

A Gutmann



Gizmo Gravitational Force Worksheet Answers:

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