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Date: 11/2/2021

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 acorn fell to earth instead of rising up to the moon because the gravitational force of earth was stronger. It was pulled down by earth's gravity.

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

We feel earth's gravity more strongly than the moon's gravity because earth's mass is bigger than the mass of the moon (stronger gravitational force) and we are closer to earth.

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?

As I move object A around, I notice that the two forces are always facing each other, object B always points to object A and object A always points to object B.

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

Both lengths change based on force. When they are closer together the length is longer, and shorter when they are farther apart.

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

The gravitational force between the two objects increases due to the decrease in their distance.

Student Exploration Gravitational Force Answer Key

Robert Jastrow



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web the hazard communication standard hcs 29 cfr 1910 1200 g revised in 2012 requires that the chemical manufacturer distributor or importer provide safety data sheets sdss formerly msdss or material safety data sheets for each hazardous chemical to downstream users to communicate information on these hazards

safety data sheets health and safety authority - Aug 03 2022

web safety data sheets for hazardous chemicals safety data sheets sdss provide useful information on chemicals describing the hazards the chemical presents and giving information on handling storage and emergency measures in case of an accident format pdf file size 332kb

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web what is a material safety data sheet msds a material safety data sheet msds is a document that contains information on the potential hazards health fire reactivity and environmental and how to work safely with the chemical product

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web a safety data sheet material safety data sheet or product safety data sheet are documents that list information relating to occupational safety and health for the use of various substances and products sdss are a widely used system for cataloging information on chemicals chemical compounds and chemical mixtures

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web material safety data sheet is a technical document which provides detailed and comprehensive information on a controlled product related to health effects of exposure to the product hazard evaluation related to the product s handling storage or use measure to protect workers at risk of exposure

iso 11014 2009 en safety data sheet for chemical products - Aug 15 2023

web the sds supplies for these aspects basic knowledge of the chemical products and recommendations on protective measures and emergency actions in some countries this sheet is called a material safety data sheet msds throughout this international standard the term sds is used

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web a safety data sheet sds or material safety data sheet msds is a standardized document that contains crucial occupational safety and health information it is mandated by the international hazard communication standard hcs

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