

Teacher Guide: Tides

Learning Objectives

Students will:

1. Define tides.
2. Describe the effects of the Moon and Sun on tides.
3. Identify and describe spring and neap tides.
4. Analyze a graph of tide changes over time.

Background

Students will use this guide to explore the spring tide, low tide, and high tide.

Lesson Overview

This guide is a part of the lesson plan for the Gizmo "Tides". It is intended for use as a teacher guide and should be used in conjunction with the student guide. The student guide is available at <https://www.ck12.org/physics/tides-lesson-plan/>. The student guide is available at <https://www.ck12.org/physics/tides-lesson-plan/>. The student guide is available at <https://www.ck12.org/physics/tides-lesson-plan/>.



The Earth-Gizmo™ illustrates the Moon, Sun, and Earth's relative positions. The left side of the Gizmo shows a view from space, with the Sun, Earth, and Moon. The right side shows a view from the Earth, with the Sun, Earth, and Moon. The Earth-Gizmo™ illustrates the Moon, Sun, and Earth's relative positions. The left side of the Gizmo shows a view from space, with the Sun, Earth, and Moon. The right side shows a view from the Earth, with the Sun, Earth, and Moon.

Background Information

The background information for the Earth-Gizmo™ includes:

- **Background Information** - This section provides background information on tides.
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Suggested Student Responses

1. **What causes tides?** Tides are caused by the gravitational pull of the Moon and the Sun on the Earth's oceans. The Moon's gravitational pull is the primary cause of tides, while the Sun's gravitational pull is a secondary cause. The combination of the two forces results in the tides we observe on Earth.
2. **How do spring and neap tides differ?** Spring tides occur when the Sun, Earth, and Moon are in a straight line, resulting in the highest high tides and the lowest low tides. Neap tides occur when the Sun, Earth, and Moon form a right angle, resulting in the highest low tides and the lowest high tides.

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Student Exploration Tides Answer Key

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Student Exploration Tides Answer Key

Student Exploration: Cladograms (ANSWER KEY) June 03, 2019 DOWNLOAD Student Exploration: Cladograms Vocabulary: adaptation, amino acid, amnion, artiodactyla, bipedal, clade, cladistics, cladogram, convergent evolution, evolution, flower, mammary glands, molecular, morphological, multicellular, parsimony, sagittal crest, phloem, selenodont teeth, SNP, xylem Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Student Exploration: Tides (ANSWER KEY)

Student Exploration: Ocean Tides (ANSWER KEY) Download Student Exploration: Ocean Tides Vocabulary: gravity, high tide, low tide, neap tide, range, spring tide, tides Prior Knowledge Questions (Do these BEFORE using the Gizmo.) A boy builds a sand castle near the ocean. When he returns several hours later, the castle is gone. What do you think happened?

Student Exploration- Ocean Tides (ANSWER KEY).docx ...

Tides - Metric. Gain an understanding of high, low, spring, and neap tides on Earth by observing the tidal heights and the position of the Earth, Moon, and Sun. Tidal bulges can be observed from space, and water depths can be recorded from a dock by the ocean.

Tides - Metric Gizmo : Lesson Info : ExploreLearning

Google Doc of Student Exploration Sheet . In the file, click on the link to make a copy of the Google Doc of the Student Exploration Sheet. Best For: 3rd Grade, 4th Grade, 5th Grade Science . Gizmo User from Virginia

Tides Gizmo : Lesson Info : ExploreLearning

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Student Exploration: Distance-Time Graphs (ANSWER KEY)

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Student Exploration Gravitational Force Answer Key [PDF]

With Exploration/ Simulation students conduct a hands-on or virtual lab where they can manipulate variables and collect data. Organization is designed to review and reinforce

key vocabulary and concepts. Students create a visual model with Illustration. Next students respond to short answer prompts in the Reflection section. In Evaluation students are assessed on their knowledge of the topic ...

Seasons & Tides Student Answer Sheet - BetterLesson

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student exploration tides answer key - Bing

Gain an understanding of high, low, spring, and neap tides on Earth by observing the tidal heights and the positions of the Earth, Moon, and Sun. Tidal bulges can be observed from space, and water depths can be recorded from a dock by the ocean.

Tides Gizmo : ExploreLearning

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Gizmo Answer Key Tides - fullexams.com

In the Trends in Scatter Plots Gizmo, students can change the relationship shown in a scatter plot using a slider or buttons. Then they can try to fit a trend line, or line of best fit, to the plot by adjusting the slope and y-intercept. They can also compare their trend line to the actual line of best fit. As students generate and work with different data sets, they will develop an intuitive ...

ExploreLearning Gizmos: Math & Science Simulations

Develop an understanding of ocean tides by comparing the depth of water near a dock to the positions of the Moon, Sun, and Earth. Determine the influence of the Moon and Sun on tides, and compare spring tides to neap tides.

Ocean Tides Gizmo : ExploreLearning

The Student Exploration sheet for the Tides Gizmo contains two activities: Activity A - Students explore the effect of the Moon on tides. Activity B - Students determine how the Sun causes spring and neap tides. Suggested Lesson Sequence 1. Pre-Gizmo Activity (10 - 20 minutes) Project a series of high tide/low tide images to the front of ...

TidesTG | Course Hero

Student Exploration Meiosis Gizmo Answer Key. Showing top 8 worksheets in the category - Student Exploration Meiosis Gizmo Answer Key. Some of the worksheets displayed are Honors biology ninth grade pendleton high school, Explore learning student exploration answers ripple tank, Biology gizmo photosynthesis answers pdf,

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[New Version] Answers To Identifying Nutrients Gizmo

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