

ExplorLearning

Name _____ Date _____

Student Exploration: Summer and Winter

Vocabulary: axis, equator, hemisphere, latitude, season, summer solstice, winter solstice

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. When during the year is the Sun highest in the sky? _____, "lowest" _____
2. When during the year are days longest? _____, "shortest" _____
3. Why do you think it is colder during the winter than the summer? _____

Gizmo Warm-up

The **Space Lab** of the Summer and Winter Gizmo™ shows two different "snapshots" of Earth as it orbits the Sun. The Earth is left shows June 21. The Earth on right shows December 21.

1. The white line going through the North Pole and the South Pole is Earth's **axis**. Does the axis go straight up and down, or is it tilted? _____
2. Your **latitude** indicates how far you are from the **equator**, a line around Earth's middle. The person in the Gizmo has the same latitude on each day. Turn on **Show Sun rays** and slowly drag the person on the left Earth toward the North Pole. What do you notice about how the Sun rays hit the person as she is moved northward? _____
3. The half of Earth south of the equator (the "top" half) is called the northern **hemisphere**. (The southern half is the southern hemisphere.)
 - A. Which hemisphere receives more direct sunlight on June 21? _____
 - B. Which hemisphere receives more direct sunlight on December 21? _____



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Student Exploration Summer And Winter Answer Key

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Student Exploration Summer And Winter

Summer and Winter. Observe the tilt of Earth's axis and the angle that sunlight strikes Earth on June 21 and December 21. Compare day lengths, temperatures, and the angle of the Sun's rays for any latitude. The tilt of the Earth's axis can be varied to see how this would affect seasons.

Summer and Winter Gizmo : Lesson Info : ExploreLearning

Student Exploration: Summer and Winter (ANSWER KEY) Download Student Exploration: Summer and Winter Vocabulary: axis, equator, hemisphere, latitude, season, summer solstice, winter solstice Prior Knowledge Questions (Do these BEFORE using the Gizmo.) When during the year is the Sun highest in the sky? Lowest? When during the year are days longest? _ _

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Student Exploration: Summer and Winter

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Summer and Winter Gizmo : ExploreLearning

2019 Name: ES Teacher: Student Exploration: Summer and Winter Vocabulary: axis, equator, hemisphere, latitude, season, summer solstice, winter solstice Prior Knowledge Questions (Do these BEFORE using the Gizmo.) 1. At what time of day is sunlight strongest - in the early morning (when the Sun has just

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Student Exploration Sheet: Growing Plants

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Vocabulary: axis, equator, hemisphere, latitude,

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Summer and Winter - karauz.weebly.com

Joshua Tate Student Exploration: Summer and Winter Vocabulary: axis, equator, hemisphere, latitude, season, summer solstice, winter solstice Prior Knowledge Questions (Do these BEFORE using the Gizmo.) 1. When during the year is the Sun highest in the sky? _ June 21 _____ Lowest? December 21 _____ 2. When during the year are days longest? _ Summer _____ Shortest?

U4A2 - Joshua Tate Student Exploration Summer and Winter ...

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Gizmo Answer Key Summer And Winter - Company

Student Exploration Summer And Winter Summer and Winter. Observe the tilt of Earth's axis and the angle that sunlight strikes Earth on June 21 and December 21. Compare day lengths, temperatures, and the angle of the Sun's rays for any latitude. The tilt of the Earth's axis can be varied to see how this would affect seasons. Page

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Summer and Winter - Science with Sullivan

Student Exploration: Summer and Winter Look up the scientific definition of each word below in your notebook!! Vocabulary: axis: a real or imaginary line on which something rotates/spins equator: an imaginary line around the earth equally distant from both poles, it is the line that divided our earth into two hemispheres hemisphere: half of a sphere, in this situation we are meaning the ...

Ansley_Scott_-_SummerWinterSE - Student Exploration Summer ...

Student Exploration: Seasons in 3D. Vocabulary: axis, equinox, latitude, Northern Hemisphere, revolve, rotate, solar energy, solar intensity, Southern Hemisphere, summer solstice, winter solstice. Prior Knowledge Question (Do these BEFORE using the Gizmo.) Both New Zealand and Argentina are in the Southern Hemisphere (south of the equator).

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