Discovery
EDUCATION ■
SCIENCE

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EXPLORATIONS

Exploration Student Worksheet: The Seasons

Overview

In this Exploration, you will discover how the Earth's revolution around the Sun causes the cycle of seasons.

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1.	During which two months do the northern and southern hemispheres receive the same amount of light?
2.	When the North Pole is tilted toward the Sun, which hemisphere will have the summer season?
3.	A year has 365 days on the calendar. Why does a leap year have 366 days?
4.	What is the relationship between the strength of the Sun's rays and the season of the year?



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Empirical evidence is evidence based on data. Explain why the sunlight is stronger in Miami, Florida, during June than it is during December. Use empirical evidence.
What kind of empirical evidence would show that Miami, Florida, always has stronger sunlight than Caribou, Maine?
It is the year 2300. The tilt of the Earth has increased. A scientist predicts that the seasons will be milder now. Evaluate and critique this prediction using the evidence you have collected.
Compare this model with the real Earth/Sun system. What are its limitations? Include size.

How to Use This Exploration

- Read the Introduction and click the Continue button.
- 2. Read the instruction text and perform the action.
- 3. Watch the animation and read the outcome explanations as they appear. Make a sketch of Earth's four positions as it revolves around the Sun.
- 4. Click the **Previous** button to go back to the previous instruction. Click the **Next** button to ©2008 Discovery Communications, LLC
- 5. Click the **Close** button to close the Exploration.



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EXPLORATIONS

Data

Make a sketch of Earth's four positions as it revolves around the Sun.

June	September
December	March