Science Virtual Learning

8th Grade Science

Seasons

May 12, 2020

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Lesson: May 12, 2020

Objective/Learning Target:

I can explain why the Earth has seasons.

Bellwork

1. Watch this video about Seasons and the Sun.
2. As you watch answer these questions on your own paper
   a. What is an orbit?
   b. What is the difference between a revolution and a rotation?
   c. How long does it take for Earth to revolve around the Sun?

Vocabulary

1. Use this vocabulary to help you complete the worksheet on slide 6.

axis – an imaginary line around which an object rotates; in a rotating sphere, such as Earth an other planets, the two ends of the axis are called poles

orbit – the path of a celestial body or an artificial satellite as it revolves around another body; one complete revolution of such a body

Vocabulary

revolve / revolution – the motion of an object around a point, especially around another object or a center of mass; a single complete cycle of such motion

rotate / rotation – the motion of an object around its own axis; a single complete cycle of such motion

seasons – one of four natural divisions of the year—spring, summer, autumn, and winter—in the North or South Temperate Zones; each season begins as the sun passes through a solstice or an equinox

Today

1. Answer the questions on the google document about seasons. (**Answers** can be found at the end of the lesson).

Today

1. Create a one pager that has the following:
   a. Draw the earth's position during the different seasons
   b. Show the earth's axis during the different seasons
   c. Difference between rotation and revolution with an example of each
   d. 4 different pictures showing you during the different seasons
   e. A fun creative border

Review

1. Use the website to explore more about the seasons

2. Practice your seasons knowledge with the following links:
Play these at least 2 times through.
Quizizz 1
Quizizz 2

Answers

Bellwork Answers:

1. What is an orbit?
   a. An orbit is the curved path of a celestial object or space shuttle around a star, planet, or moon.
2. What is the difference between a revolution and a rotation?
   a. Rotation is when an object turns around an internal axis and a revolution is when an object turns around an external axis.
3. How long does it take for Earth to revolve around the Sun?
   a. 365 days

Answers

Today's Google Doc **Answers**:

1. Summer
2. Fall
3. Winter
4. Spring
5. Rotation
6. Revolution
7. One day
8. One year
9. Axis
10. Summer
11. Winter
12. Southern Hemisphere
13. Winter
14. Orbit