

May 11, 2020

1) Earth Motion

Warm-up:

How fast does the Earth go around the Sun? In km/h.

The Earth moves at about 100,000 km/h around the Sun (which is 1000 times faster than the speeds we go at on a highway!)

The Effects of Planetary Motion

The Earth is spinning.

The Earth travels around the Sun.

Let's start with the Earth Spinning.

Rotation - The movement of an object around its axis at 23.5 degrees Celsius.

★ Polaris is the North Star and it is visible all year round!! Why?

What about the other planets?

As the Earth rotates on its axis, the part of the Earth facing the Sun is experiencing day, and the part away from the Sun is experiencing night.

Day

Night

Revolution-The movement of an object around another.

The Earth and the other planets revolve around the Sun.

Before we move on, let's answer this question.

What are the reasons, for the seasons?

The Revolution of the Earth and the tilt of the Earth both cause the Earth to have Seasons.

Fall

During the Summer, we receive the Sun's energy directly.

During the Winter, we receive the Sun's energy at an angle.

While it's Summer in the Northern Hemisphere, it's Winter in the Southern Hemisphere.

<https://www.youtube.com/watch?v=l64YwNl1wr0>

Watch these videos:

Earth's Rotation & Revolution: Crash Course Kids 8.1
<https://www.youtube.com/watch?v=l64YwNl1wr0>

Seasons and the Sun: Crash Course Kids 11.1
<https://www.youtube.com/watch?v=b25g4nZTHvM>

Activity: Using materials around your house, make a model or create a poster of how the Earth goes around the sun showing day, night and the seasons. If it is spring in Canada, what season is it in Australia? If it is 6 am in Miramichi, what time is it in China?

Attachments

Uranus student response(4).avi

student response no tilt.avi