Homework:

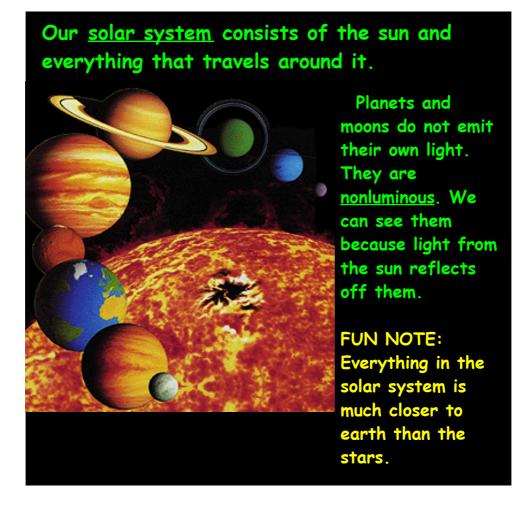
- Determine that constellation that is associated with your birthday.
- Describe what it looks like and the brief story behind it.

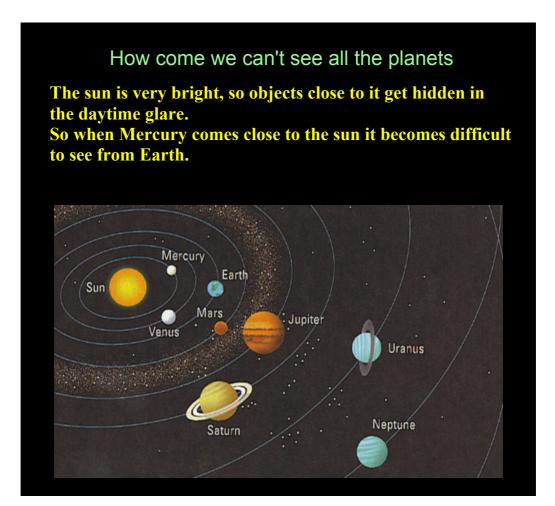
http://www.enchantedlearning.com/subjects/astronomy/stars/constellations.shtml

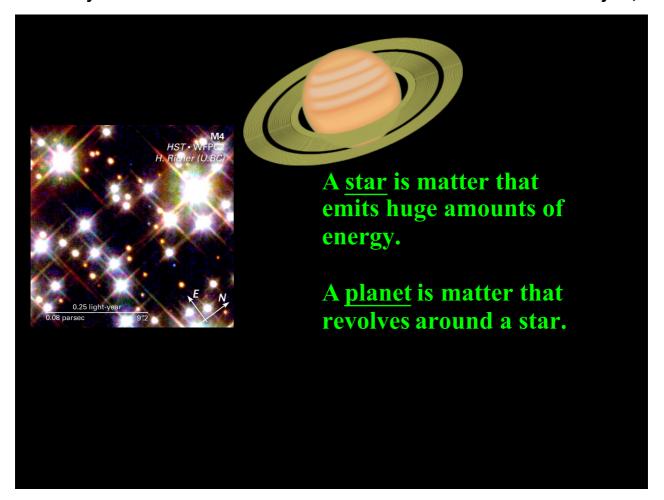
Starting with the sun, can you list the planets?



-

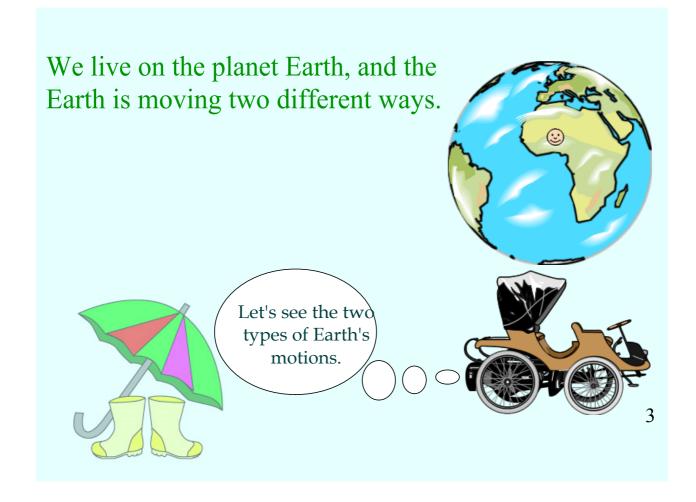


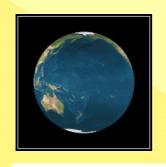




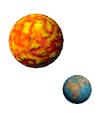
| Table 1 Comparin | er objects in the sky. | |
|------------------------------|--|--|
| Feature | Planet | Star |
| location | in the solar system | far beyond the solar system |
| distance from Earth | fairly near | very far |
| real size | smaller than most stars | usually larger than planets |
| reason we see object | reflects light from the Sun | emits its own light |
| surface temperature | usually cool or very cold | very hot |
| what object is made of | usually rocks or gases | gases under high pressure and temperature |
| observable feature | does not appear to twinkle | appears to twinkle |
| long-term observable feature | very slowly wanders through constellations | appears to move through sky as part of a constellation |





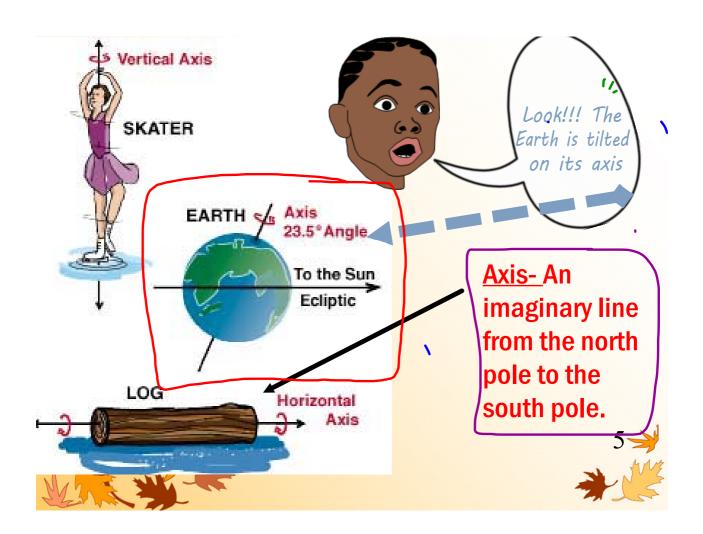


The Earth is spinning.

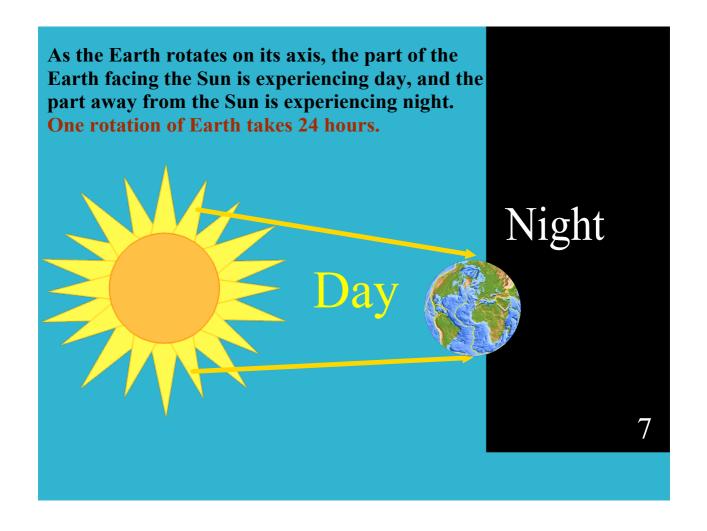


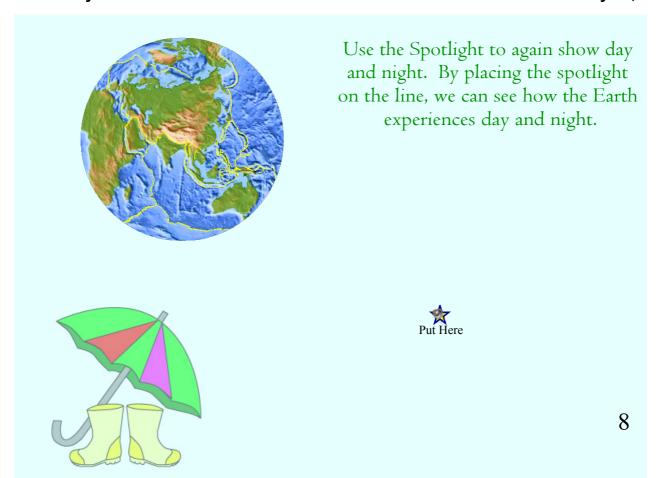
The Earth travels around the Sun.

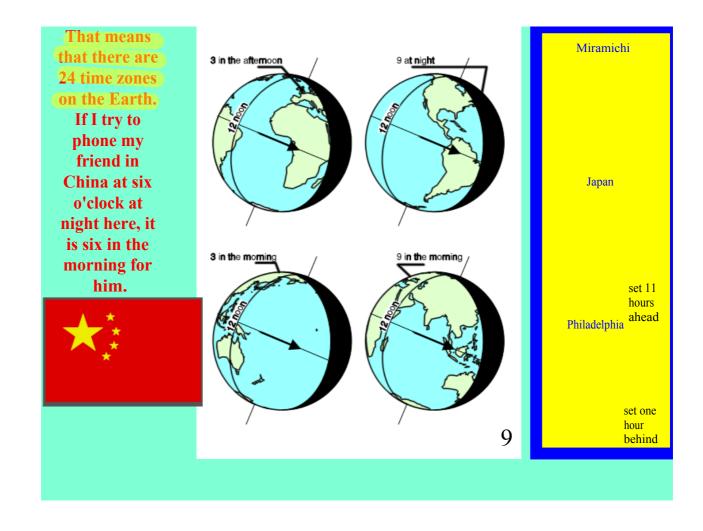
Let's start with the Earth Spinning.4





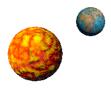








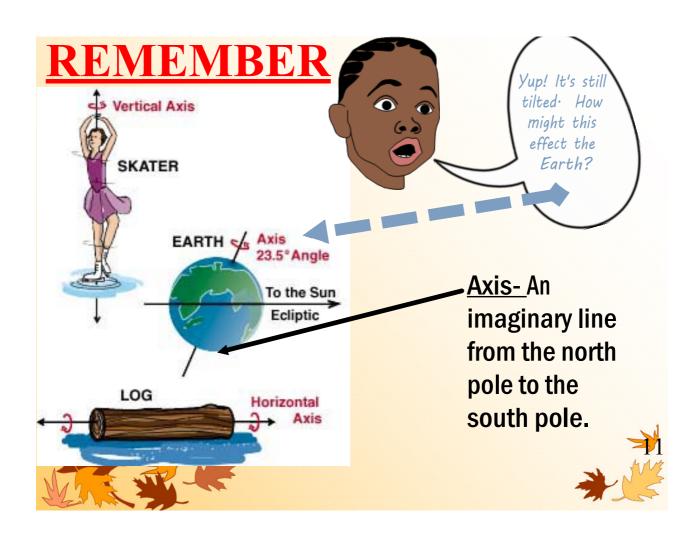
The Earth is spinning.

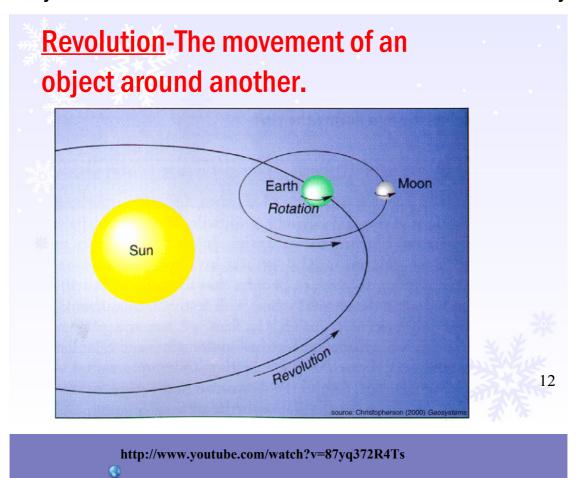


The Earth travels around the Sun.

Now let's try the Earth going around the Sun.

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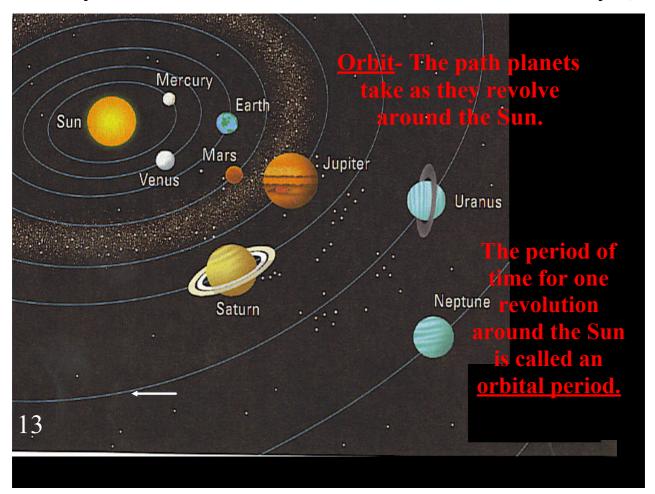


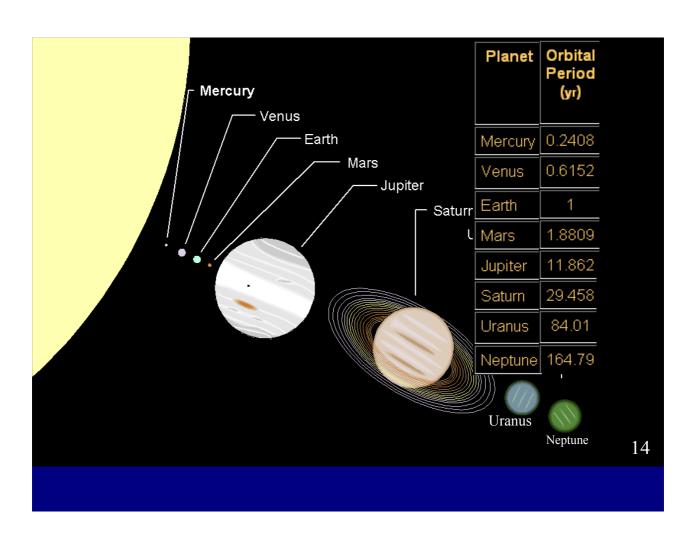


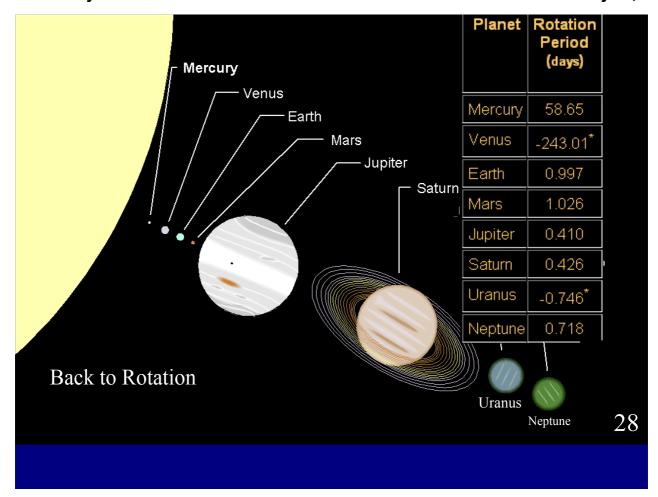
The Earth and the other planets revolve around the Sun. It takes the earth 1 year to revolve around the sun.





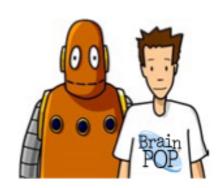


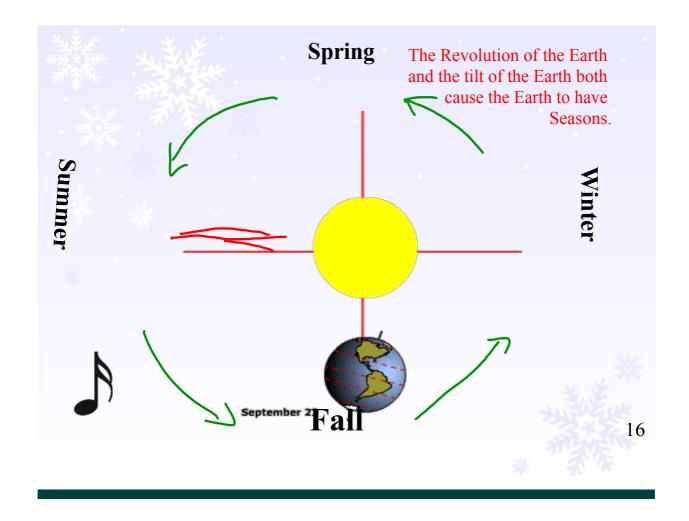


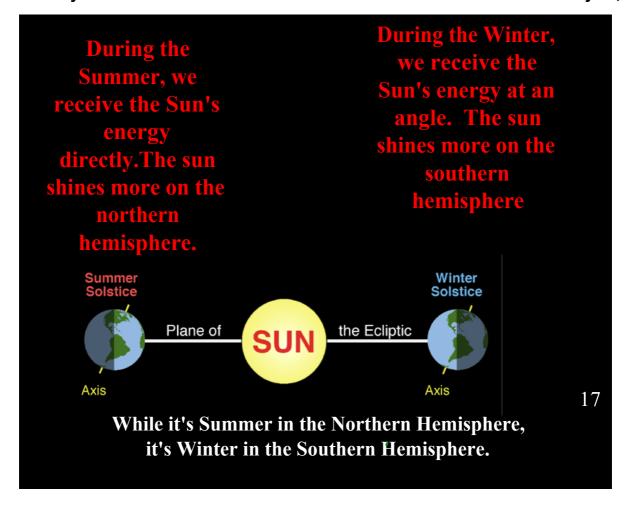


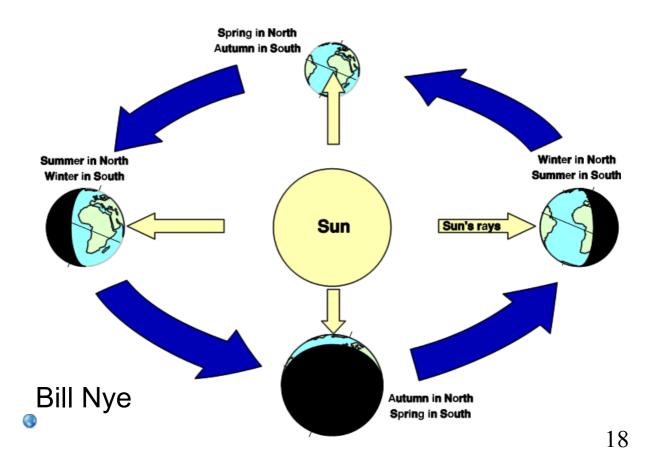


Press Tim and Moby to see their Season's video.





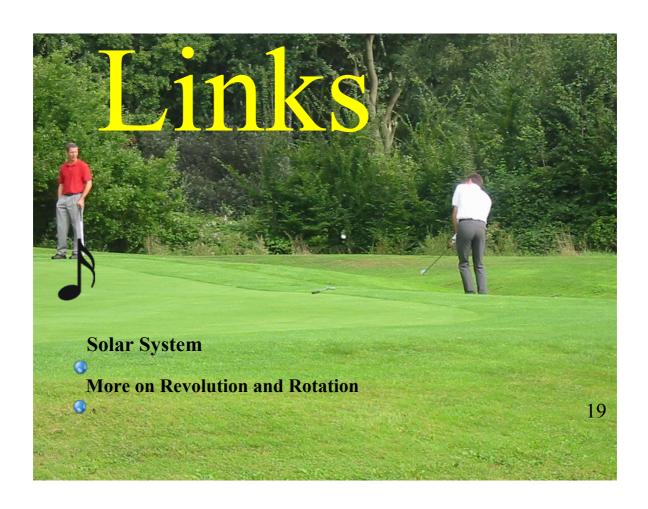


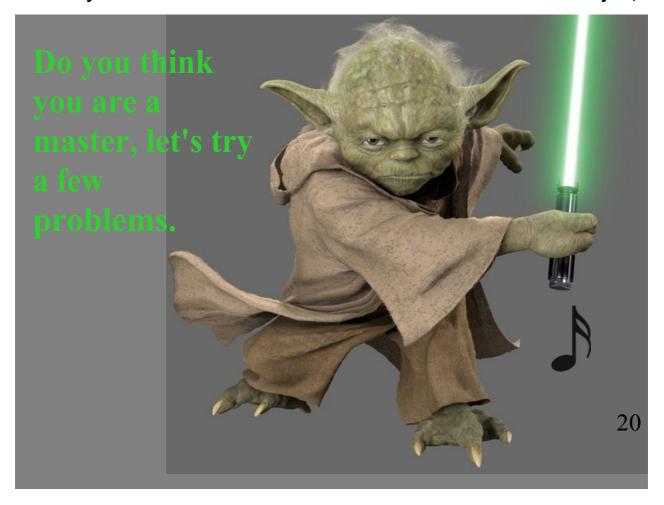


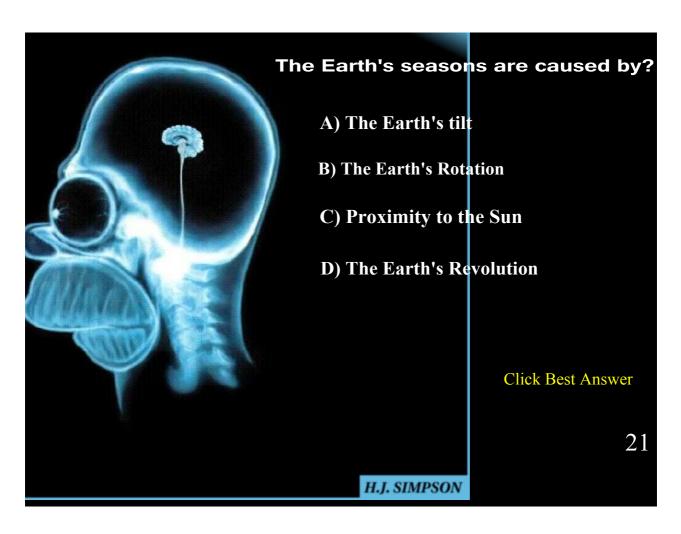
Solstice represents the shortest and longest periods of daylight

Winter solstice - shortest period of daylight (Northern hemisphere - Dec. 21)

Summer solstice – longest period of daylight (Northern hemisphere - June 21)







It takes the Earth how long to make one Revolution?

Click Best Answer

- A) One day
- B) One Week
- C) One Month
- D) One Year





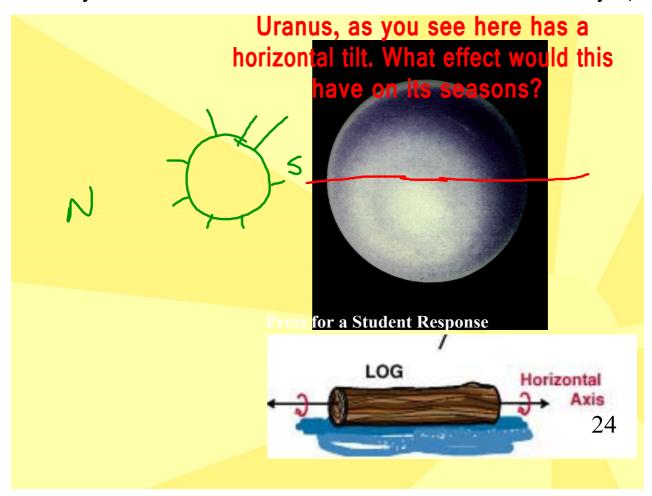
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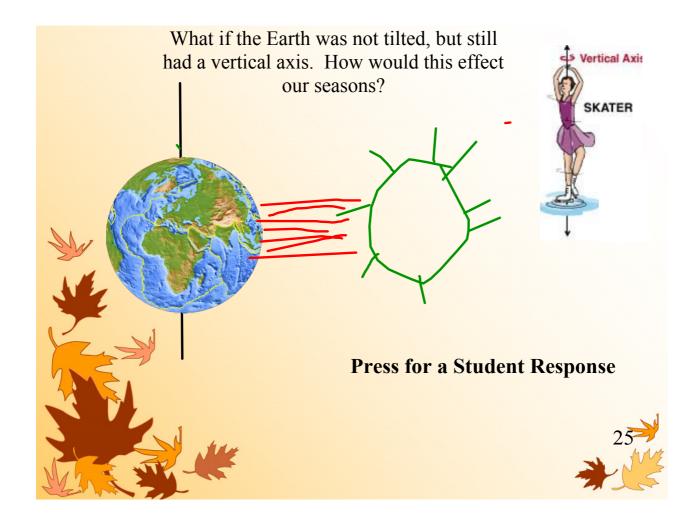


If it's winter in New Brunswick, then it would be Summer in which continent?

- 1) North America
- 2) Europe
- 3) Australia
- 4) Whoville

Click Best Answer





Assignment for Today

Read section 13.10 on pages 418-419. Questions from Understanding concepts 1, 2(omit 2c), 4,5.

Complete the challenge - which planet would be suitable for possible colonization? Give reasons for your choice. How will the planet conditions need to be considered in the design of your space colony? What would need to be done to make life sustainable on this planet?

Page 419

- 1) a) Scientist believe that Mercury has no atmosphere.
- b) Mercury being the closest planet to the sun may not contain an atmosphere because of this reason. The sun's heat would destroy and gases that existed.
- 2) a) Venus and Mars seems to be two planets that share some similarities with Earth. If you compare size Venus and Earth are approximately the same size. If you look at Mars its rotational period is 24 hr 39 min and Earth's is 24 hrs. All three planets have nitrogen in it atmosphere.
- b) The planets that are the least similar to Earth are Jupiter, Saturn, Uranus and Neptune. Each of these four planets are extremely large compared to earth, their orbital periods take years and their temperatures are extremely cold.
- c) Pluto is no longer considered a planet and is now known as a dwarf planet
- 4) The atmosphere on the four larger planets would not support lift because living organism need oxygen and nitrogen to survive.

Today, we took time to investigate two movements of the Earth, its revolution and rotation. With this knowledge, we can understand why we have day and night, and why we have seasons.



student response no tilt.avi seasons.avi Uranus student response(4).avi