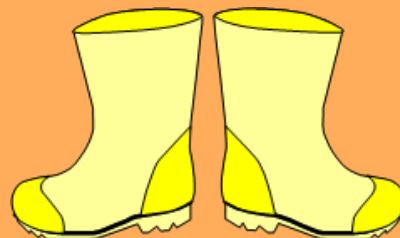
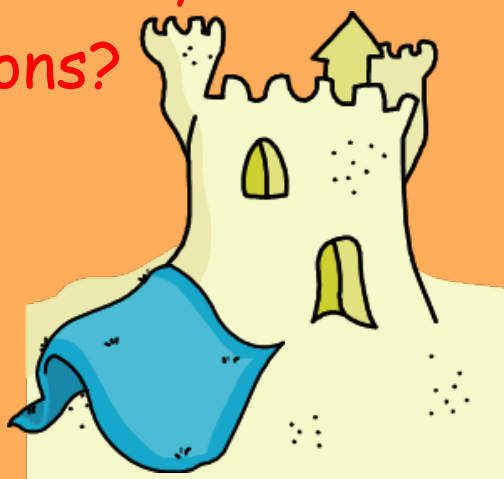


May 13, 2019

- Review Rotation, Revolution, Time Zones and Seasons
- Bill Nye Reasons for the Seasons



What are the reasons,
for the seasons?

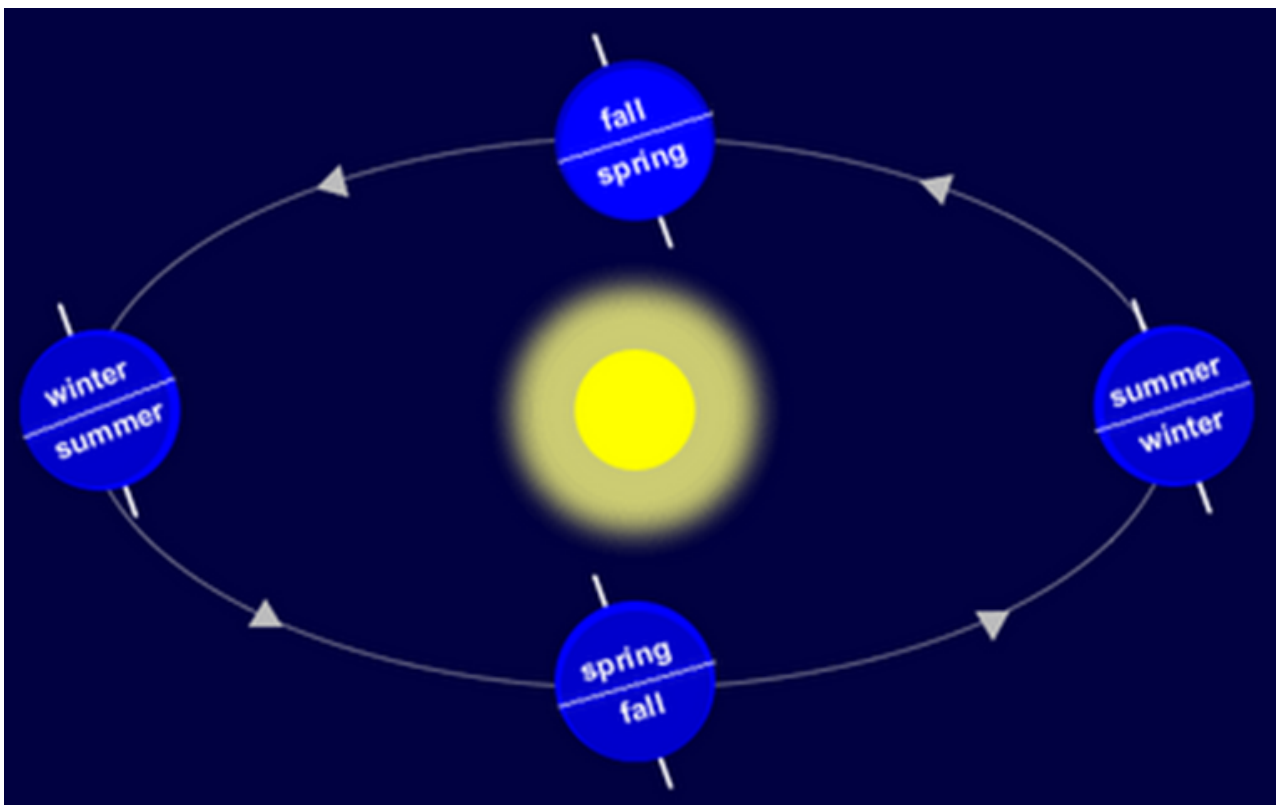


Tilt + Revolution = Seasons



- The more direct sunlight an area gets the warmer it is

- > In what season is North America tilted towards the Sun?
- > In what season is North America tilted away from the Sun?
- > In what season(s) does the tilt not really affect temperature?



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

Summer Solstice



Axis

Plane of



the Ecliptic

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

Winter Solstice



Axis

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

Summer vs. Winter

- In Winter, the Sun doesn't get as high in the sky and therefore, we see it for less time (shorter days) and we receive less direct sunlight (colder)
- In Summer, the Sun takes a much longer path across the sky and therefore, we see it for more time (longer days) and we receive more direct sunlight (hotter)

Bill Nye Seasons



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