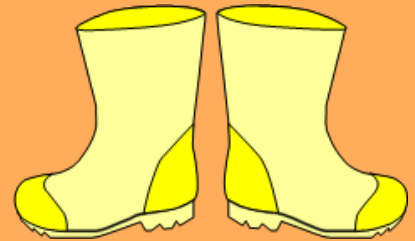
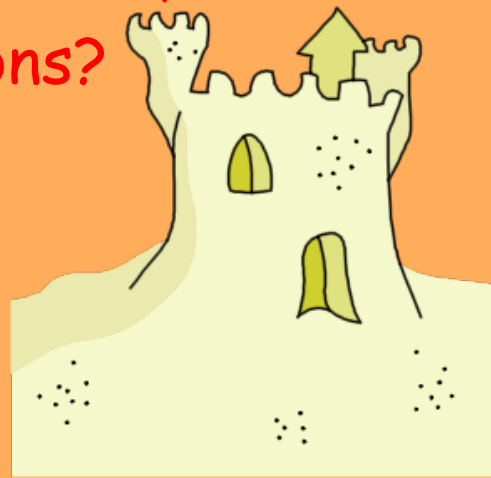


Before we move on, let's answer this question.



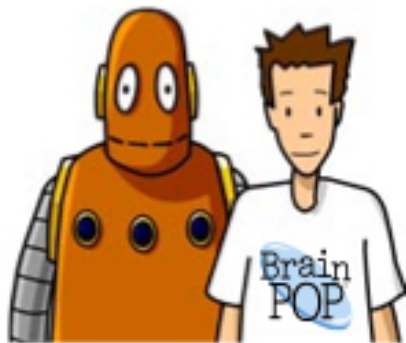
What are the reasons,  
for the seasons?



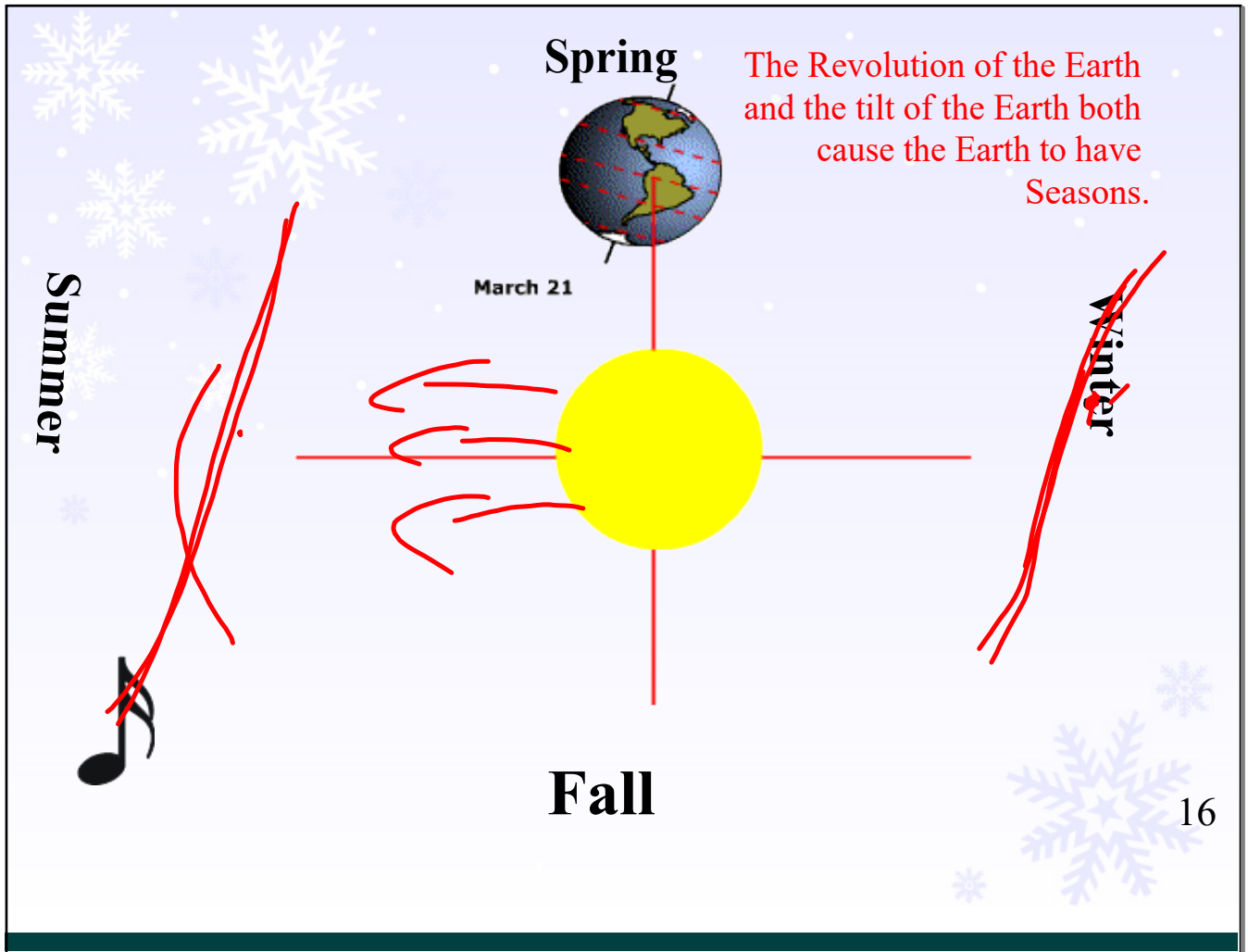
15

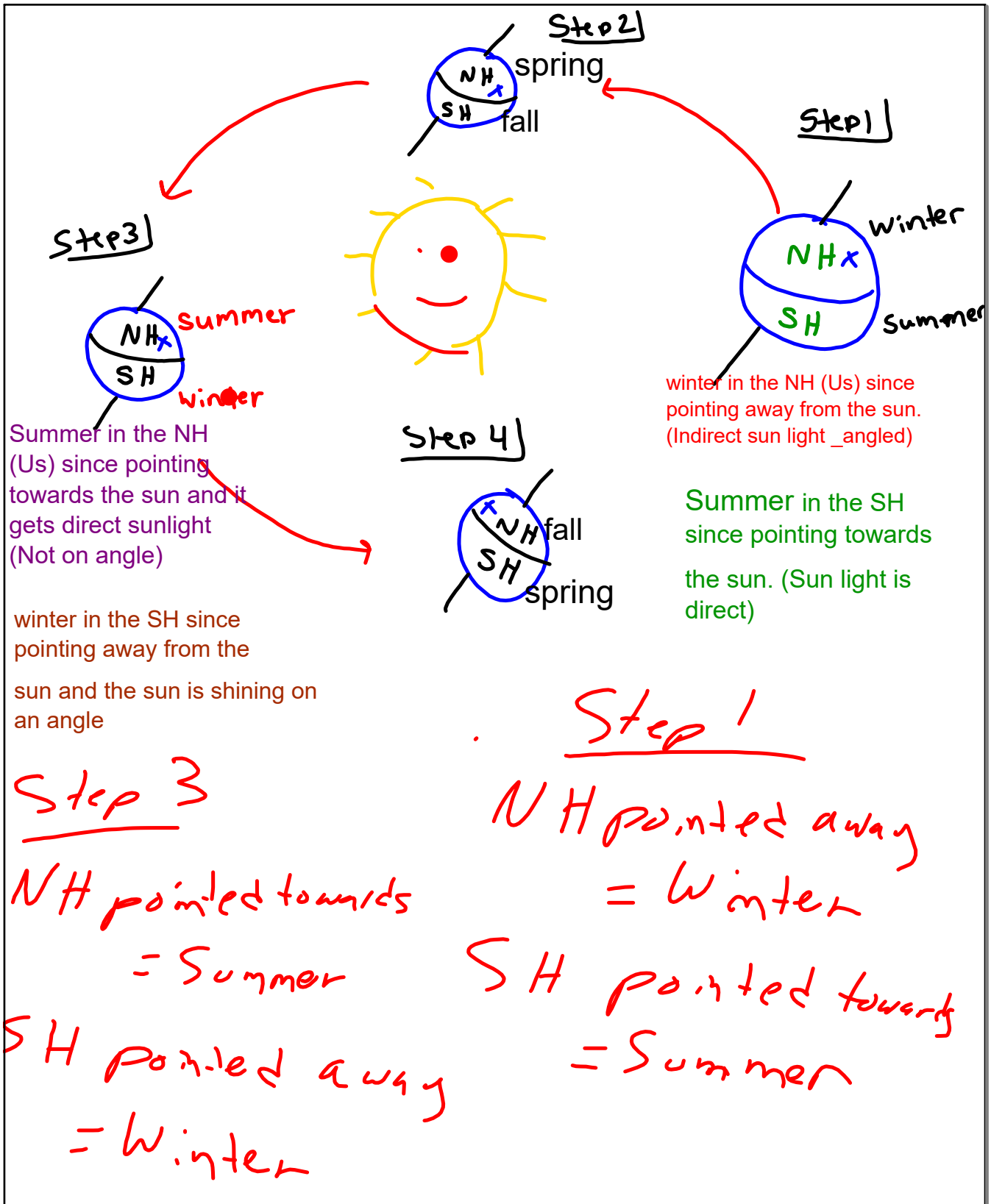
- 1) Rotation  $\rightarrow$  Axis at  $23.5^\circ$
- 2) Position of the earth in relation to the Sun  
 $\rightarrow$  Revolution

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



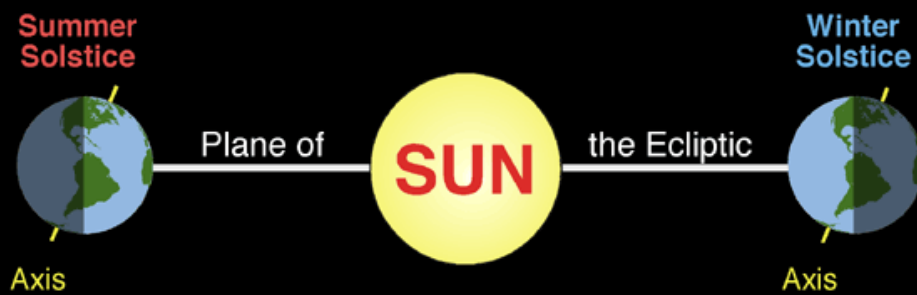
<https://www.youtube.com/watch?v=Pgq0LThW7QA>





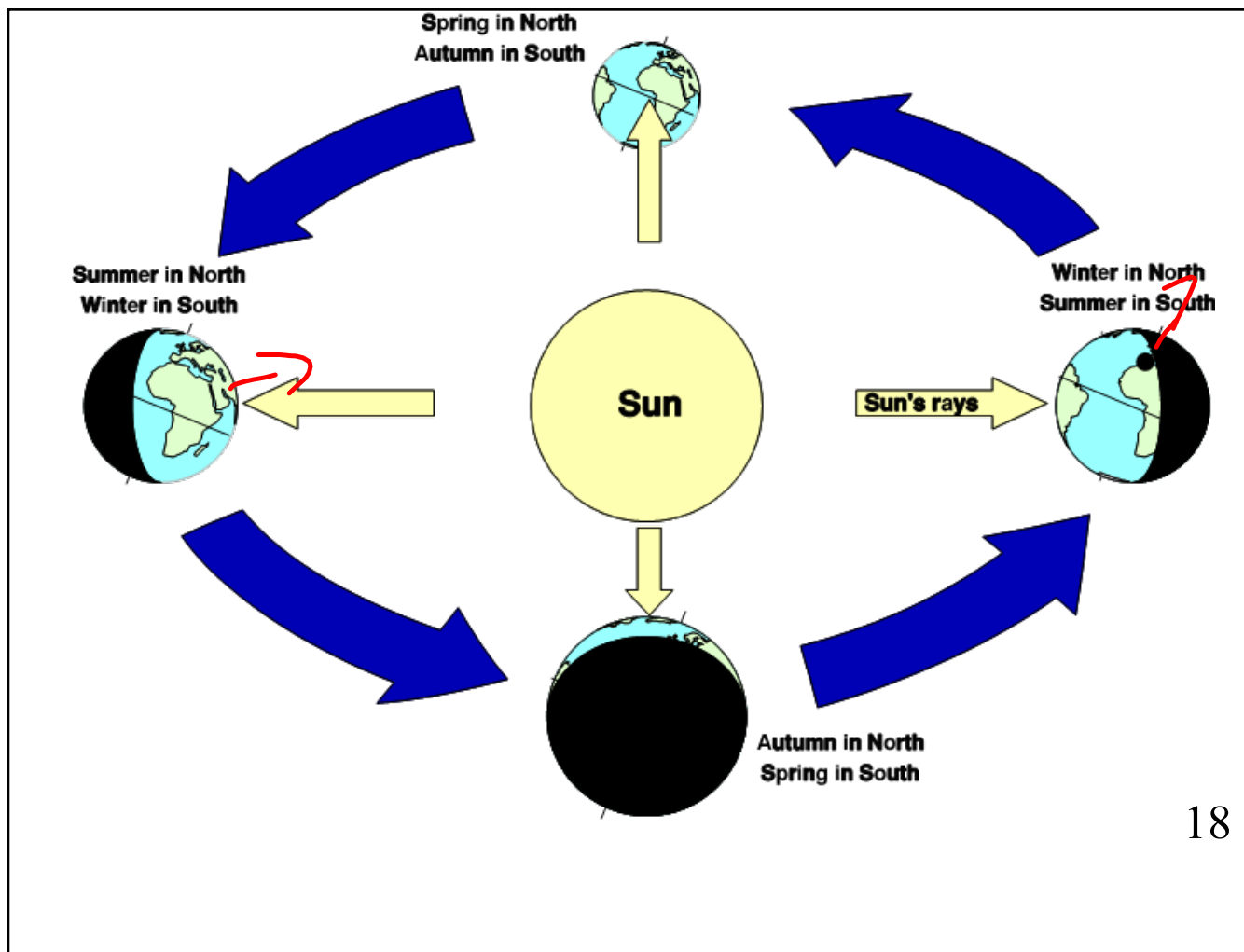
During the Summer, we (NH) receive the Sun's energy directly. The sun shines more on the northern hemisphere.

During the Winter, we receive the Sun's energy at an angle. The sun shines more on the southern hemisphere



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

17



**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*)

# Links



**Solar System**



**More on Revolution and Rotation**




19



Do you think  
you are a  
master, let's try  
a few  
problems.



20



The Earth's seasons are caused by?

- A) The Earth's tilt
- B) The Earth's Rotation
- C) Proximity to the Sun
- D) The Earth's Revolution

Click Best Answer

H.J. SIMPSON

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



22



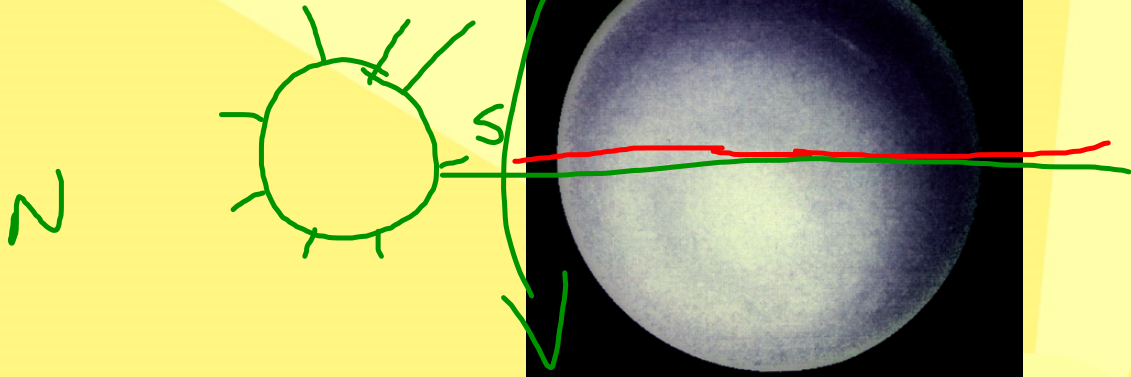
If it's winter in New Brunswick, then it would be Summer in which continent?

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

[Click Best Answer](#)

23

Uranus, as you see here has a horizontal tilt. What effect would this have on its seasons?

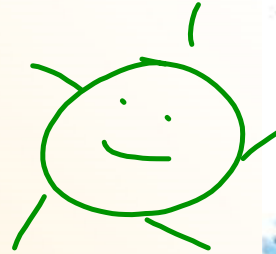


Press for a Student Response



24

What if the Earth was not tilted, but still had a vertical axis. How would this effect our seasons?



Press for a Student Response

25



## Attachments

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student response no tilt.avi

seasons.avi

Uranus student response(4).avi