

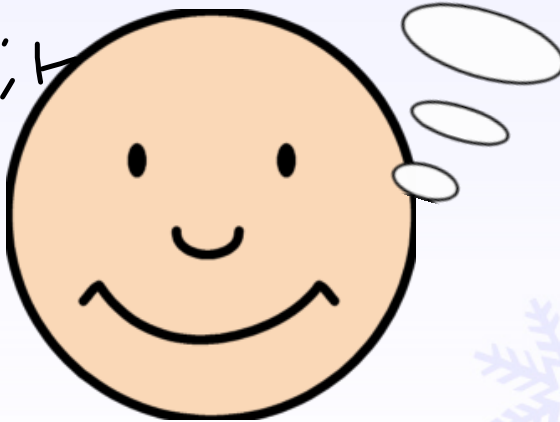
I want you to think about this question. What ways are you moving right now?

- Moving round the Sun
- Spinning on the spot

*Rotating*

*Revolving*

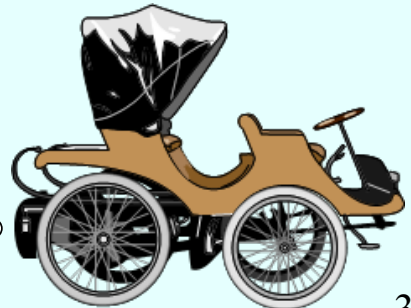
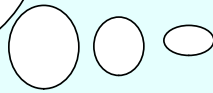
Write down student answers.



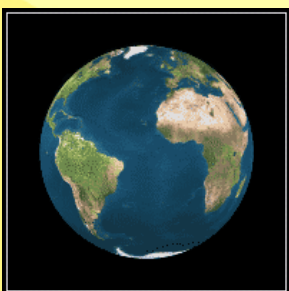
We live on the planet Earth, and the Earth is moving two different ways.



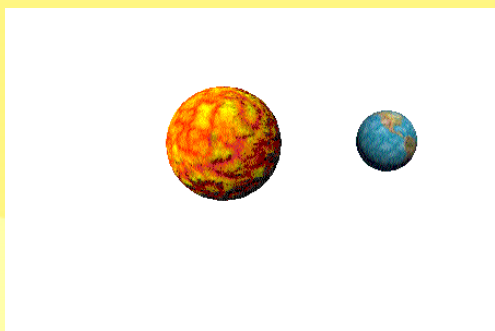
Let's see the two types of Earth's motions.



3

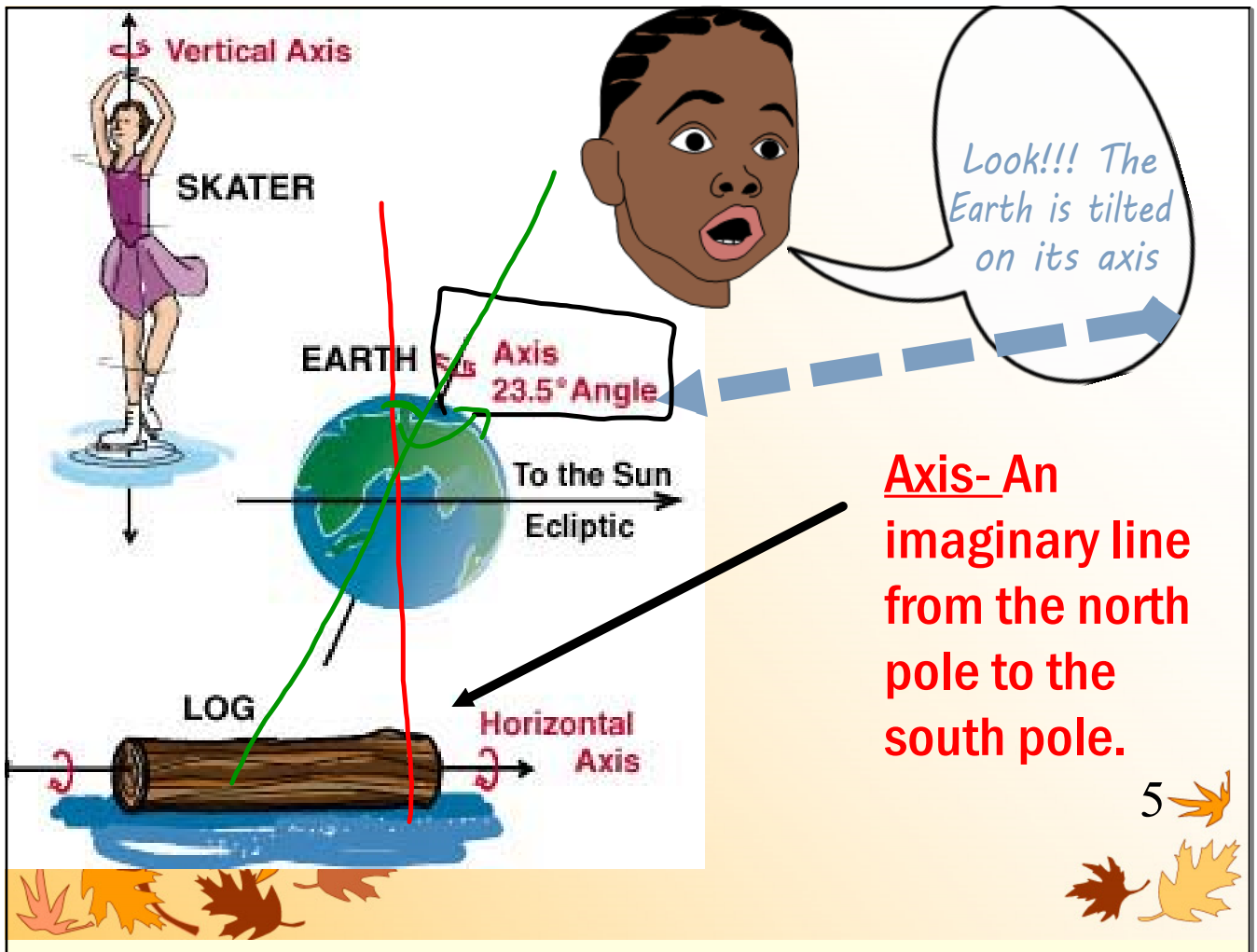


The Earth is spinning.



The Earth travels around the Sun.

Let's start with the Earth Spinning.<sup>4</sup>

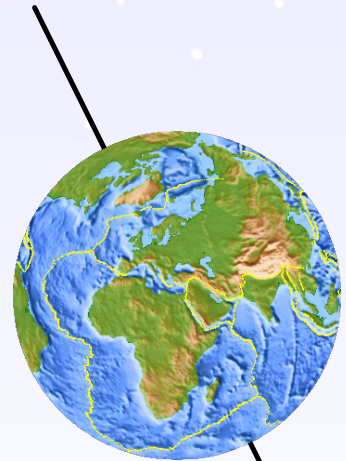
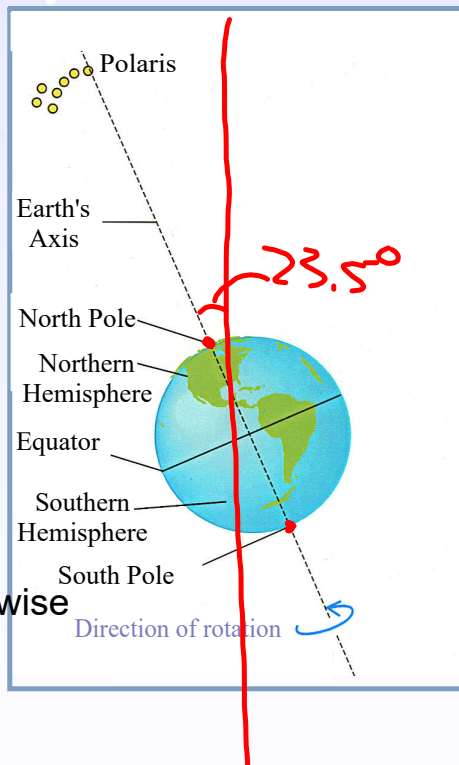




**Rotation**- The movement of an object around its **axis.**

→ 24 hours

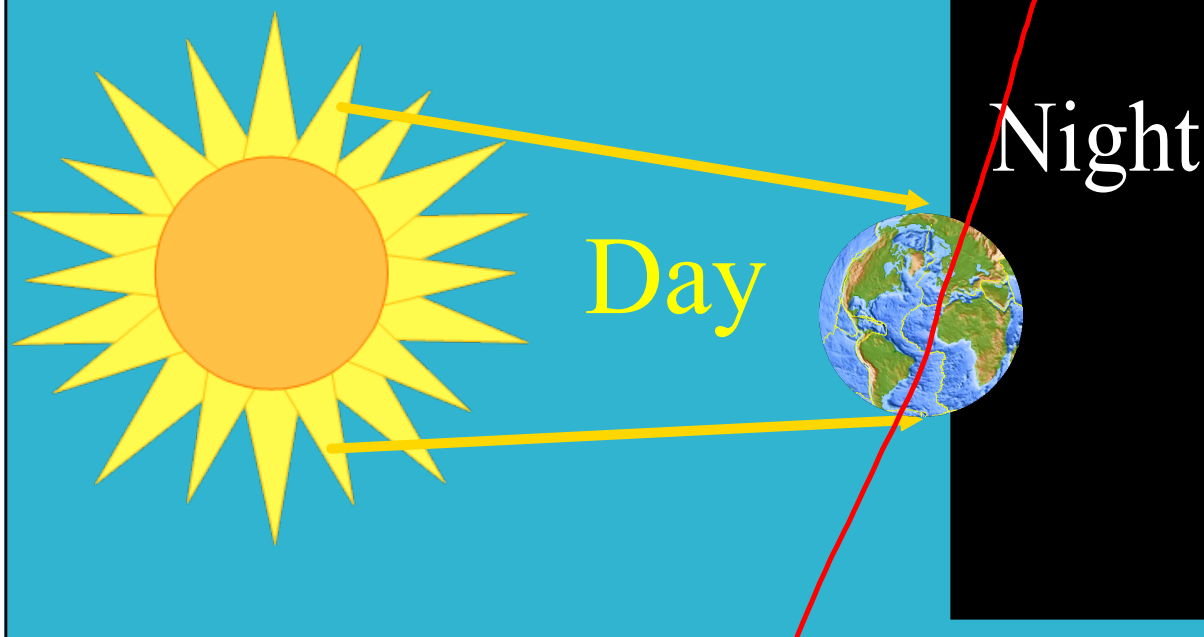
Earth rotates Counter clockwise

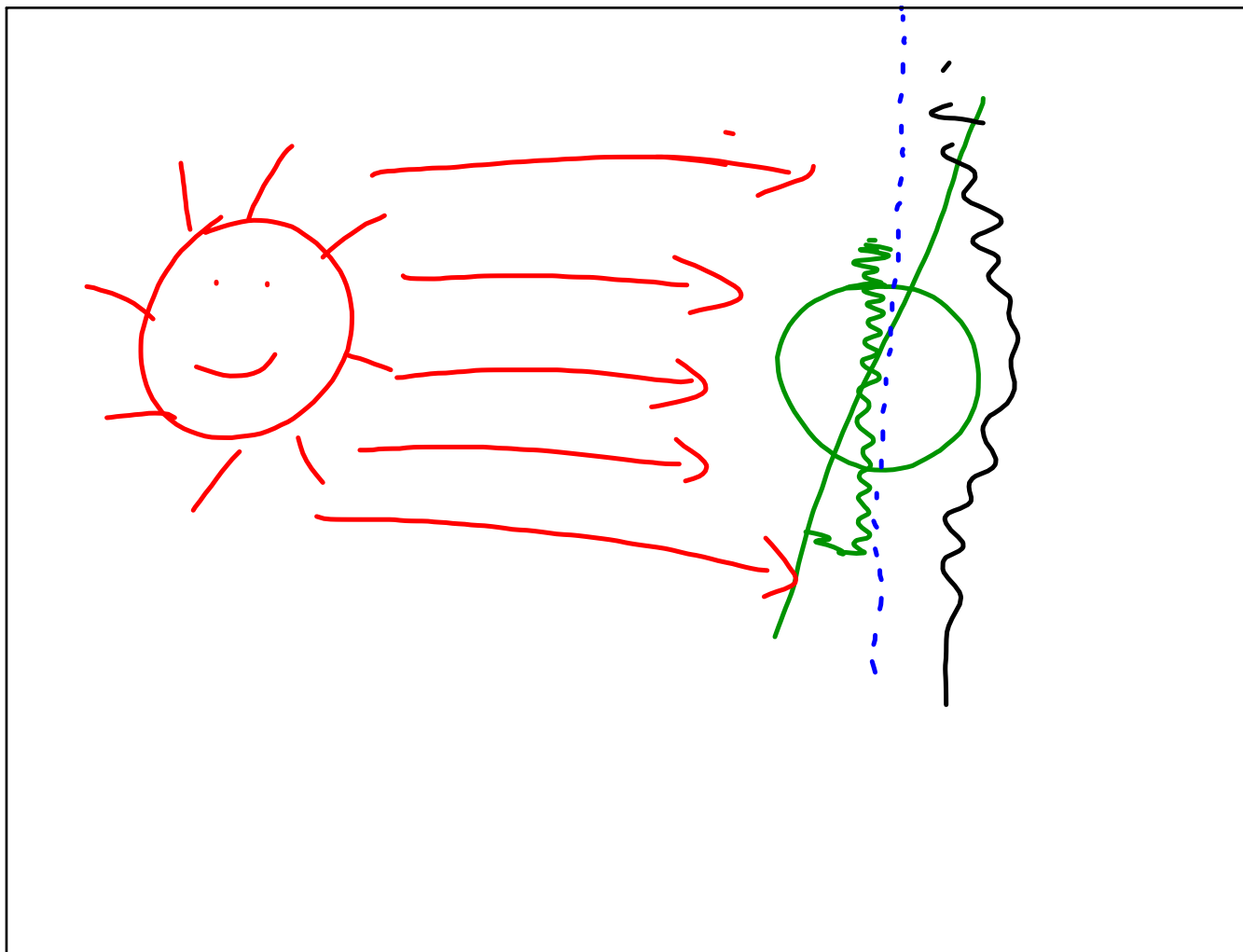


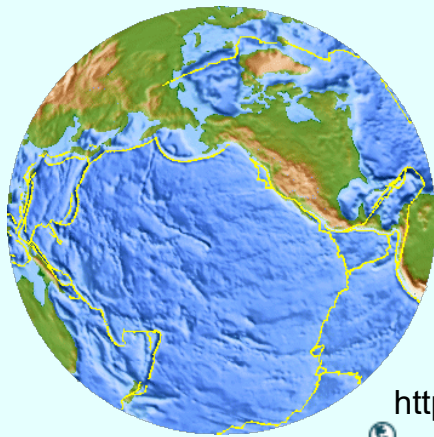
What about the other planets?  
[Click Here](#)

6

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. One rotation of Earth takes 24 hours.







Use the Spotlight to again show day and night. By placing the spotlight on the line, we can see how the Earth experiences day and night.

[https://www.youtube.com/watch?v=lz4KtSy\\_81k](https://www.youtube.com/watch?v=lz4KtSy_81k)



Put Here



That means that there are 24 time zones on the Earth.

If I try to phone my friend in China at six o'clock at night here, it is six in the morning for him.



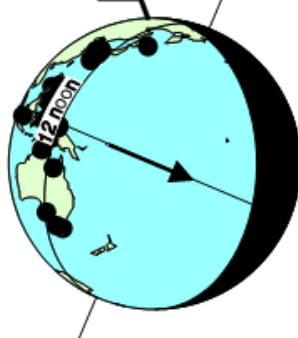
3 in the afternoon



9 at night



3 in the morning



9 in the morning



9

Miramichi



Japan



8:21:35 AM/PM

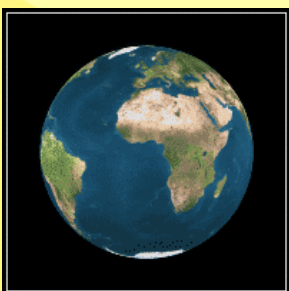
set 11 hours ahead

Philadelphia

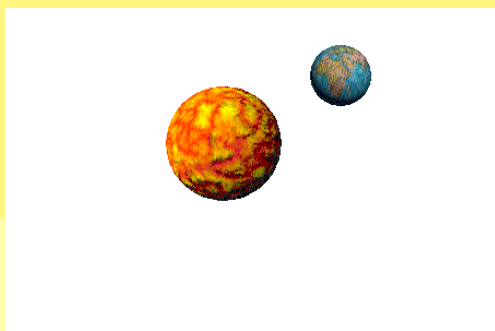


8:25:10 AM/PM

set one hour behind



The Earth is spinning.



The Earth travels around the Sun.

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

# REMEMBER

**SKATER**  
Vertical Axis

**EARTH**  
Axis  
23.5° Angle  
To the Sun  
Ecliptic

**LOG**  
Horizontal Axis

Yup! It's still tilted. How might this effect the Earth?

**Axis**- An imaginary line from the north pole to the south pole.

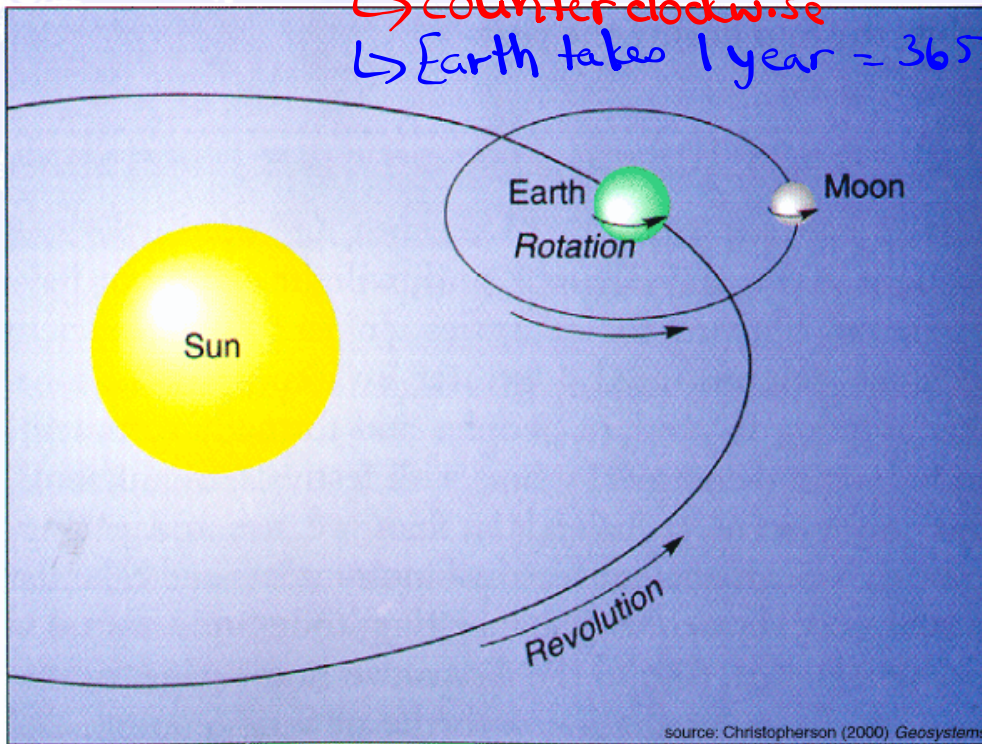


**Revolution**-The movement of an object around another.

(earth goes around sun)

↳ counter clockwise

↳ Earth takes 1 year = 365 days

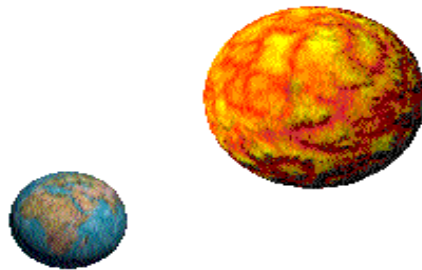


source: Christopherson (2000) Geosystems

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



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



## Attachments

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student response no tilt.avi

seasons.avi

Uranus student response(4).avi