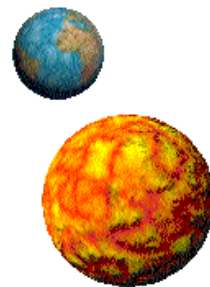


May 9, 2019

1) Earth Motion



Warm-up:

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

The Effects of Planetary Motion

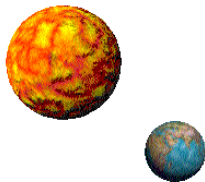


Section 13.3 Pages 404-405

There are two ways the earth moves.



The Earth is spinning (rotation)



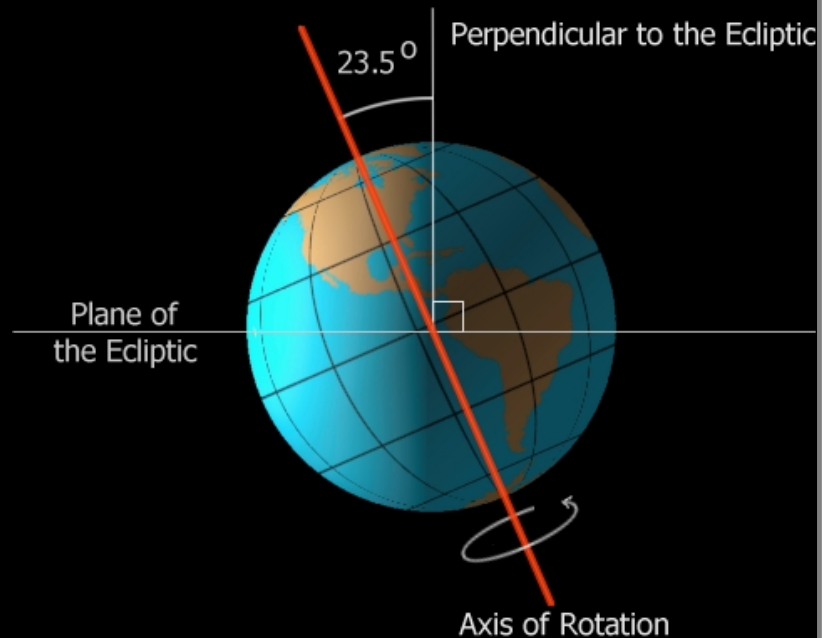
The Earth travels around the Sun (revolution)

Let's start with the Earth Spinning.

Rotation - The movement of an object around its axis .

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

- One rotation of Earth takes 24 hours



Thought to be 23.5° because asteroid or large object hit the earth and tilted it.

Effects of Earth's Rotation:

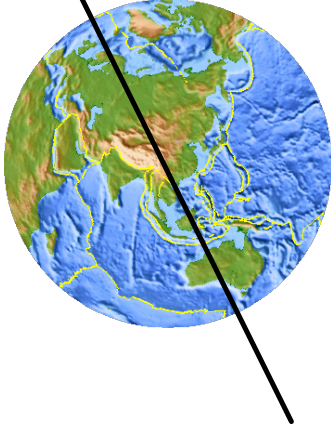
- Earth's rotation causes half the planet to face towards the sun (day) and the other half away (night) at all times

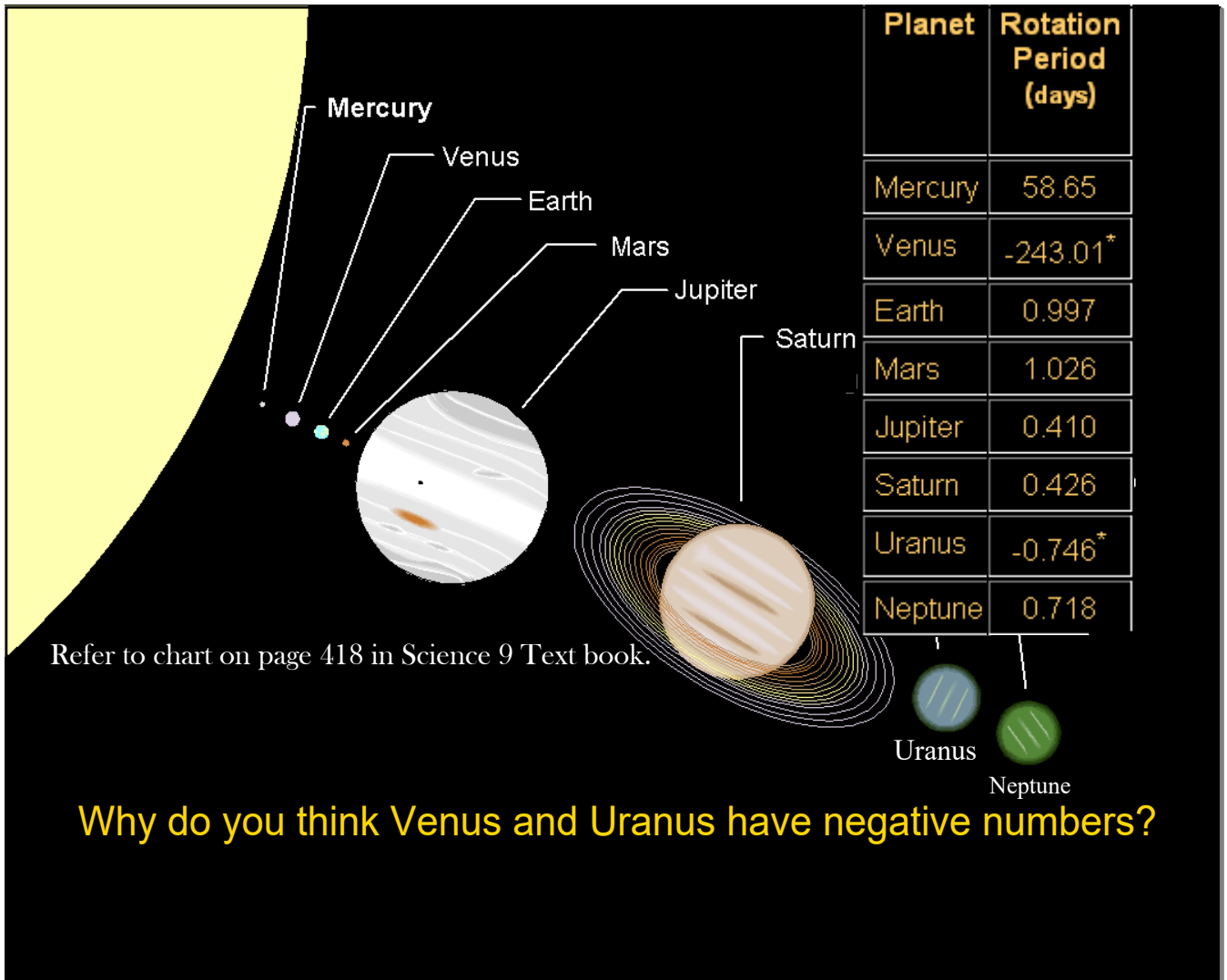


Planet	Day Length
Mercury	1,408 hours
Venus	5,832 hours
Earth	24 hours
Mars	25 hours
Jupiter	10 hours
Saturn	11 hours
Uranus	17 hours
Neptune	16 hours

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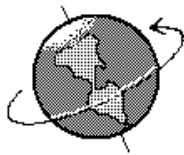
What about the other planets length of rotation?



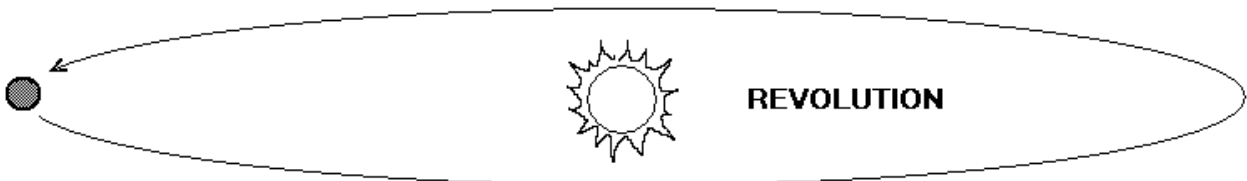


revolution: the movement of one object travelling around another.

The Earth and the other planets in our solar system revolve around the Sun.



ROTATION



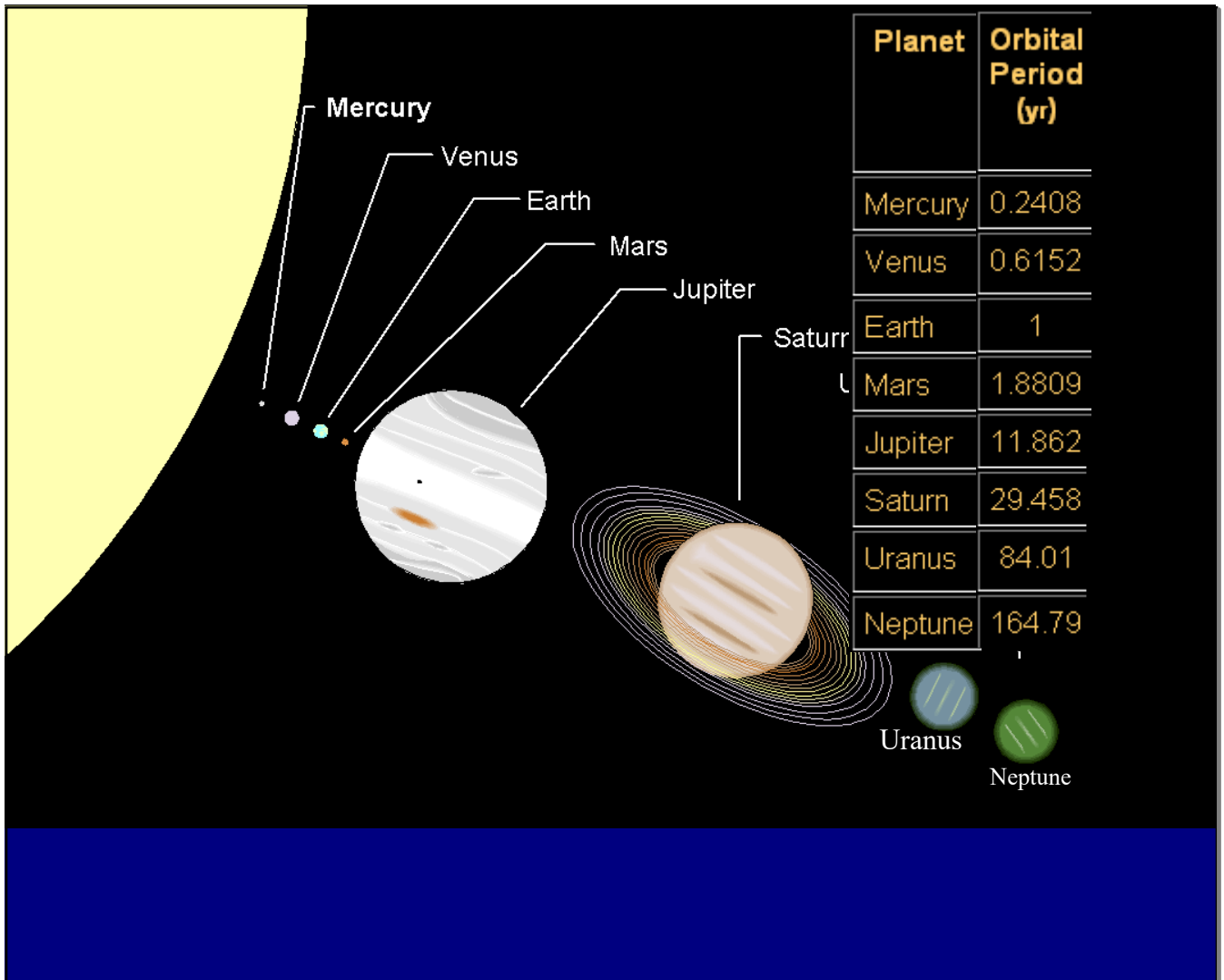
REVOLUTION

- Takes Earth one year to travel in a circle around the Sun
- **Allows us to see different constellations during different seasons**

The period of time for one revolution around the Sun is called an orbital period.

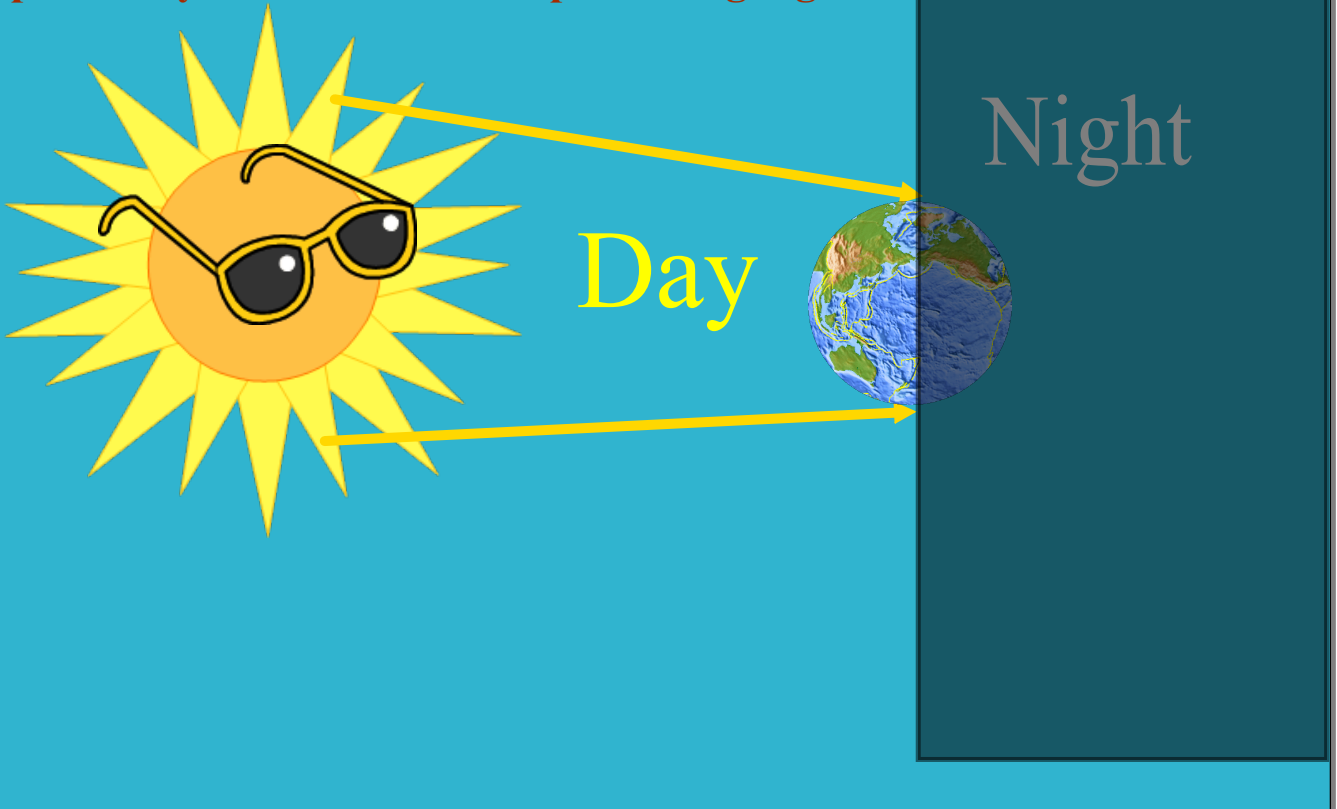


Orbit- The path planets take as they revolve around the Sun.



Planet sizes

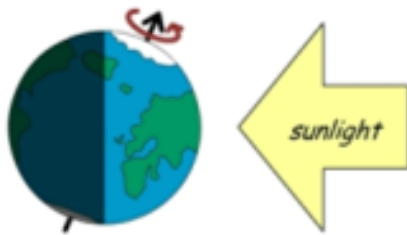
As the Earth rotates on its axis, the part of the Earth facing the Sun is experiencing day, and the part away from the Sun is experiencing night.



Day & Night

The Earth **spins** on its axis once every **24 hours**.

Northern summer

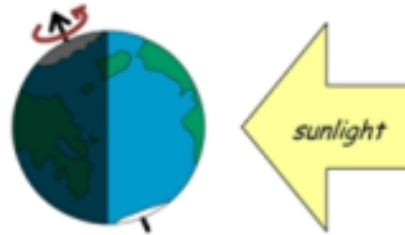


For the northern hemisphere...

longer days

shorter nights

Northern winter



For the northern hemisphere...

shorter days

longer nights

Attachments

Uranus student response(4).avi

student response no tilt.avi