Today's Plan

Warm Up: Seasons/Eclipses

Review HW: 2 Seasons

Activity: Draw Eclipses

Lecture

HW: 3 Eclipses

Warm Up 2: Seasons 6-1-16

LT I can explain what eclipses are and why they happen.

- Q1. What is the difference between rotation and revolution?
- Q2. Why does the tilt of the earth's axis cause the seasons?

Warm Up 2: Seasons 6-1-16

LT I can explain what eclipses are and why they happen.

- Q1. What is the difference between rotation and revolution?
- A1. Rotation is the spinning of earth, causes sun to rise and set.

Revolution is the movement of Earth around the Sun, contributes to the seasons

- Q2. Why does the tilt of the earth's axis cause the seasons?
- A2. When the axis is pointed toward the sun that hemisphere is hit more directly by the Sun's rays and are in the rays for longer hours.

HW 2: Seasons

Ask neighbors

2 minutes

Ask LeMay

? min

5 Minutes to Review 5 words in Space Research

Then share out with each other.

Period 1, Work on HW 2

Diagrams of a Lunar Eclipse

Pre assement

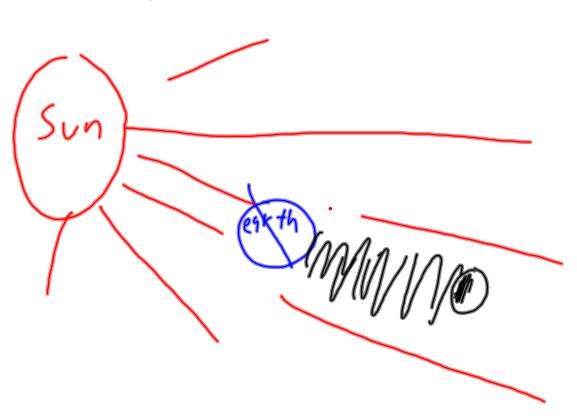
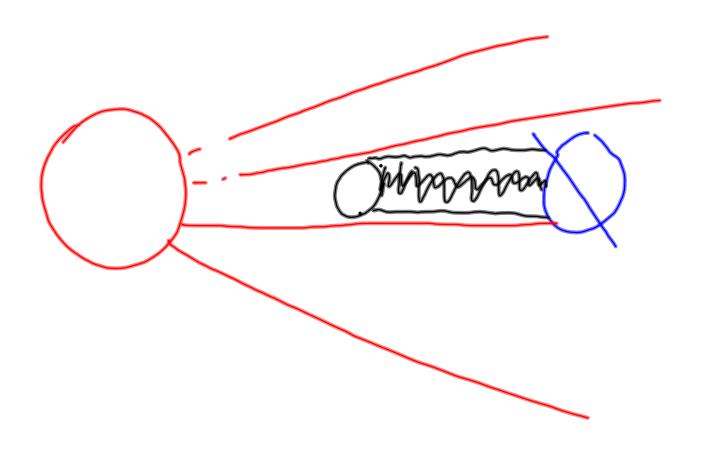


Diagram of a Solar Eclipse



You Tube Videos

Watch this one for sure!

https://www.youtube.com/watch?v=kgbK2FZFFdw

Solar Eclipse

http://www.youtube.com/watch?v=cGrxEhCUJn8&NR=1

Lunar Eclipse

http://www.youtube.com/watch?v=2dk--IPAi04

Lunar and Solar Eclipse

http://www.youtube.com/watch?v=Rk3Hjk_oHZ0&feature=fvw

How eclipse work

http://www.youtube.com/watch?v=xwGs8_otT64

http://www.youtube.com/watch?v=jkLlJEwdPwE

5 min with partners to discuss these questions

- 1. why are total solar eclipses so rare?
- 2. Why do lunar eclipses last so much longer and so many more people can see them?

2 Warm Up: Seasons / Eclipses 6-1-16

- Q1. What are the two primary reasons the hemisphere that is tilted toward the Sun are warmer than the hemisphere away from the Sun.
- Q2. How did the first person to support his claim that the Earth was round?
- Q3. What is an eclipse?
- Q4. Why don't we have an eclipses every month?

2 Warm Up: Seasons / Eclipses 6-1-16

- Q3. What is an eclipse?
- A3. When one object blocks the light from the sun.
- Q4. Why don't we have an eclipses every month?
- A4. The Earth-Moon orbital plane is 5 degree different from the Sun-Earth axis (ecliptic).

Name:	_ Period:	Date:	
		3 Eclipses	

In class, before lecture: Please diagram what you believe a solar and lunar eclipses may look like.

The Sun, Earth, Moon. The Sun's rays, and the shadows from the Earth or Moon.

Solar Eclipse Lunar Eclipse

PLEASE DIAGRAM: include, Sun, Earth's orbit, and Moon's orbit The Sun-Earth axis (x-axis) = Ecliptic The Earth-Moon axis is tilted 5 degrees off the Ecliptic

Vocabulary Words			
Lunar Eclipse:			
Solar Eclipse:			
Umbra:			
Penumbra:			
Please include:	olar and lunar eclipses look like. The Sun, Earth, Moon. The Sun's rays, and the sha ir Eclipse	dows (including Umbra and Penumbra)from the Earth or Moc Lunar Eclipse	n.