Chapter 20 DRW Lesson 1 Earth's Motion

Skim Lesson 1 in your book. Read the headings and look at the photos and illustrations. Write three things you want to learn more about as you read the lesson. Write your ideas in your Science Journal.

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Earth and the Sun

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Organize information about the Sun.

about km from Earth	energy from
The	e Sun
core temperature: more thansurface	Sun's energy reaches Earth as and
temperature:	

Complete information about Earth's revolution around the Sun.

Earth Revolves Around the Sun				
Definition of revolution				
How long it takes Earth to make one revolution around the Sun				
Definition of orbit				
Force that keeps Earth in its orbit around the Sun				

	Arrange facts about Earth's rotation.	
	Earth's Rotation	
	Rotation is a motion.	
	A rotation axis is One complete Earth rotation is called a	
	takes hou	
	Earth's rotation axis is always Earth's rotation makes objection in the sky appear to	
	the same direction by the same amount.	
emperature and	Analyze the interaction of sunlight with Earth's su	rface
found this on page	Cause Effect	
	Curved The energy in a beam of sunlight is spread out most surface of Earth The energy in a beam of sunlight is spread out most surface of Earth The energy in a beam of sunlight is spread out most surface of Earth The energy in a beam of sunlight is spread out most surface of Earth The energy in a beam of sunlight is spread out most surface of Earth Ea	
. 1	This makes Earth at th	e pole
	1	

column.

Direction in which Earth's rotation axis is leaning						
Season	Toward the Sun	Away from the Sun	Neither toward nor away			
Winter						
Spring						
Summer						
Fall						

Lesson 1 | Earth's Motion (continued)

ınd this on page	Define solstice and	equinox.			
ma uns en p s s	Solstice:				
und this on page	hemisphere for each the amount of solar	ch season is beginni point in Earth's orbit. T energy received by the n ing throughout each sea	hen indicate whethe orthern hemisphere i		
	Point in Orbit	Season Beginning in the Northern Hemisphere	Change in Solar Energy Received		
	December solstice		·		
	March equinox				
	June solstice				
	September equinox				
found this on page	Describe the height sky in the northern December solstice	ht of the apparent path hemisphere at each sol	of the Sun through t stice.		
	1				
Synthesize It Sup What might the seas	pose that Earth's axis ons be like?		nstead of 23.5 degre		

Scan Lesson 2 in your book. In your Science Journal, write three questions you have about the Moon. Try to answer your questions as you read.

Seeing the Moon

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The Moon's Formation

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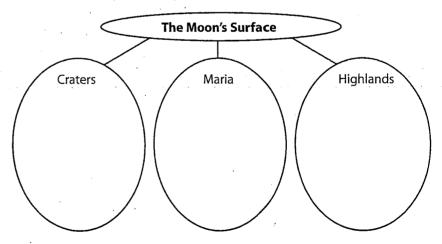
The Moon's Motion I found this on page _

Explain why you can see the Moon.

Sequence *events in the Moon's formation*.

1. A co	ision between	
	occurred.	
	2 was ejected into space, and a ring formed	
	3. Material in the ring and formed	•

Describe three features of the Moon's surface.



Identify details about the 2 motions of the Moon.

	Revolution	Rotation
Period in days		
Description of motion		

Lesson 2 Earth's Moon (c			
I found this on page			etails REBEE EEEEEEEEEEEEEEEEEEEEE
Phases of the Moon I found this on page	Orga		n about the Moon's phases.
	Definition	n: Car	Length of a complete lunar cycle:
I found this on page	Cat	egorize informa	tion about the phases of the Moon.
	Phase	Name	Description
	- Waxing	Week 1: First Quarter	
,	l I mbosos	14/1-3-	

Phase	Name	Description
Waxing	Week 1: First Quarter	
phases	Week 2:	
Waning	Week 3:	
phases	Week 4:	

	Analyze It experience the	If you coul phases of th	d live on the ne Moon? Wo	Moon thrould you see	ough one lunar cyc e Earth going throu	le, how wou gh phases? E	ıld you xplain.
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Main Idea

Shadows—the Umbra and the Penumbra

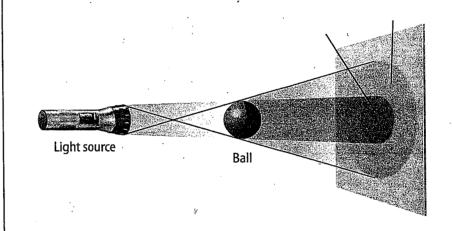
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Define umbra and penumbra. Then label the umbra and the penumbra on the diagram below.

Umbra:

Penumbra:



Solar Eclipses

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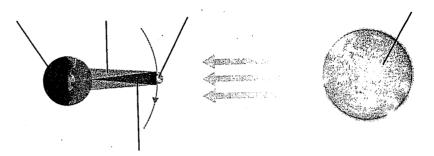
Compare *information about* solar eclipses.

Definition:		Phase during which a solar eclipse can occur:	
Total eclipse:	Solar Eclipse		

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Label the diagram of a solar eclipse. Use these terms:

- Moon penumbra
- partial solar eclipse
- Earth umbra total solar eclipse



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Explain why solar eclipses do not occur every month.

Lunar Eclipses

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Organize information about lunar eclipses.

