Astronomy

Review and

Reinforce

Chapter 1 Earth, Moon, and Sun

Name

Homeroom

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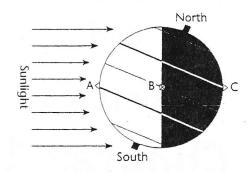
Earth, Moon, and Sun • Review and Reinforce

P.6-13

Earth in Space

Understanding Main Ideas

Use the following figure to answer questions 1 through 3.



- 1. In the diagram, what season is it in North America?
- 2. Would a person at each of the points A, B, and C see the sun? If so, where would the sun be in the sky?
- 3. Which is a person standing at point B seeing, sunrise or sunset? Explain.

Building Vocabulary

Match each term with its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column.

_			
	4. astronomy		
	5. axis	a.	The path of Earth as it revolves around the sun
2	6. rotation	b.	System of organizing time that defines the beginning, length, and divisions of a year
	7. revolution	с.	Line passing through Earth's center and poles
	8. orbit	d.	The study of the moon, stars, and other objects in space
	9. calendar	e.	The sun is farthest north or south of the equator at this time.
	10. equinox	f.	Movement of Earth around the sun
	an of amon	g.	Movement of Earth around its axis
	11. solstice	h.	The noon sun is directly overhead at the

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G	ravity and M	otion	
	nderstanding Main uswer the following ques	Ideas tions in the spaces provided.	
1.	How are gravity and	weight related?	
2.		law of universal gravitation apply	y to Earth and the
3.	Use Newton's first law the court.	w of motion to explain why a bask	ketball rolls across
4.	How does distance as	ffect the strength of the force of g	ravity?
Wr	ilding Vocabulary ite a brief description of	each of the following.	
6.	gravity		
7.	law of universal gravi	itation	
8.	mass		
9.	weight		
10.	inertia		
11.	Newton's first law of	motion	



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Earth, Moon, and Sun • Review and Reinforce

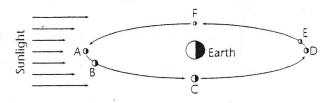
Phases, Eclipses, and Tides

P. 20-27

Understanding Main Ideas

Use the following figure to answer questions 1 and 2.

- 1. What phases of the moon would someone on Earth see when the moon is at positions A through F?
- 2. What kind of tide (spring or neap) will occur when the moon is at positions A, C, D, and F?



Building Vocabulary

From the list below, choose the term that best completes each sentence, and write it in the blank.

pha	ase gravity pe	numbra	umbra	solar						
tide	es lunar ec	lipse	spring	neap						
3.	A(n)angles to the line between Earth			right						
4.	A(n) Earth or Earth's shadow hits the		the moon's shado	w hits						
5.	A person standing in the moon's would se a partial solar eclipse.									
6.	Differences in the moon's pull on different parts of Earth cause									
7.	A person standing in the moon's a total solar eclipse.		W(ould see						
8.	The of much of the sunlit side of the mo			n how						
9.	A(n) Earth line up.	tide occurs w	hen the sun, moo	n, and						
10.	A(n)			hen						
11.	A(n) between Earth and the sun.	eclipse occurs	when the moon	passes						
	The force of	pulls t	he moon and Ear	th.						

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Earth, Moon, and Sun • Guided Reading and Study

The Origin of the Moon

P30-33

11. Complete the flowchart to show the sequence of events in the collisionring theory.

The Collision-Ring Theory

A large object collided with a. _____

Material from b. _____ outer layer was ejected into space.

The material from Earth was thrown into c. _____ and formed a ring.

Gravity caused this material to form the d.

e. Use the flowchart to summarize in your own words how the moon was formed.

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Earth's Moo	n '	P. 30-33
Understanding Ma	in Ideas	
1. How are the size a	nd mass of the moon different from	n that of the Earth?
features of the mod	person to observe the moon throug on did he identify?	
4. How do temperati	ires on the moon differ from those	on Earth?
Building Vocabula Answer the following q	ry uestions in the spaces provided.	
6. How did Galileo n	nake a telescope?	
7. What are moon cra	aters? How were they formed?	
8. What are maria? H	Iow were they formed?	
9 What are meteoroi	ids?	

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Earth, Moon, and Sun • Key Terms

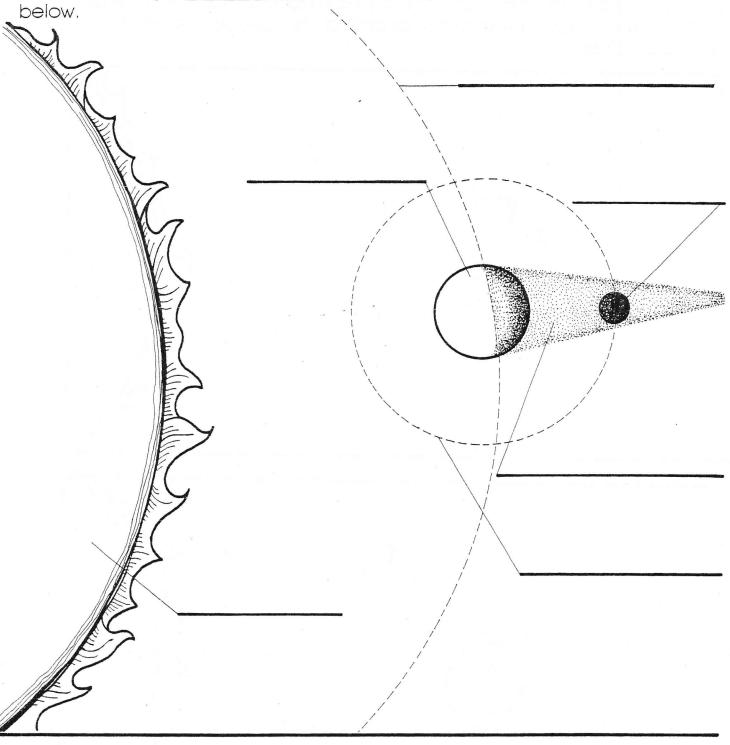
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Key Terms

The hidden-word puzzle below contains 12 key terms from the chapter. You might find them across, down, or on the diagonal. Use the clues to identify the hidden terms. Then circle each term in the puzzle.

CI	ues											K	ley Te	erms	
	. The spinr	ning m	otion	of E	arth a	roun	d its	axis							
2.	. The study	of the	e mod	n, sta	ars, ai	nd ot	her ol	ojects	in sp	ace _					
3.	The differ	ent sh	apes	of the	e mod	on yo	u see	from	Eartl	n _			.*		
4.	The imag	-		-		throu	ıgh Ea	arth's	cent	er and –	d				
5.	The two dat either 2					nich t	he sui	n is d	irectl	y ove	rheac	i 			
6.	Earth's pa	th as	it rev	olves	arou	nd th	e sun						· · · · · · · · · · · · · · · · · · ·	-	
7.	The move	ement	of on	e obje	ect ard	ound	anotl	her ol	oject	-	A				
8.	The rise o	r fall c	of oce	an w	ater										
9.	A round p	oit on t	he m	oon's	surfa	ace		٠							
10.	The darke	est par	t of th	ne mo	oon's	shad	ow				411				
11.	Dark, flat	areas	on th	e mo	on's s	urfac	ce					10			
12.	The part of	of a sh	adow	that	surro	unds	s the c	darke	st par	t _					
		х	С	r	а	t	е	r	r	u	q	r,			
		р	a	S	t ,	r	0	n	0	m	у	е			
		е	X	0	m	0	n	t	t	b	W	V			
		n	i	1	m	а	r	i	a	r	1	0			
		u	S	S	d	е	n	b	t	a	t	1			
		m	W	t	d	C	m	S	i	m	i	u			
		b	S	i	k	p	m	b	0	t	a	t			
		r	t	C	m	1	S	S	n	р	t	i			
		a	а	e	u	i	1	k	а	i	d	0 ,			
				f.					la:			_			

When the sun, Earth and moon are in direct line, the moon moves into the Earth's shadow causing a <u>lunar eclipse</u>. Label the orbits and bodies in the illustration

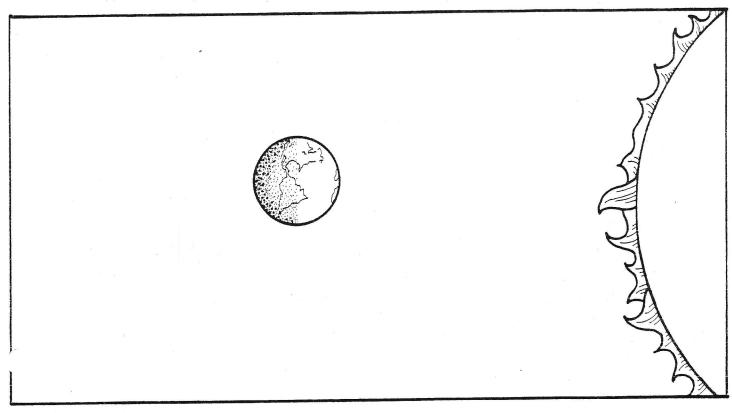


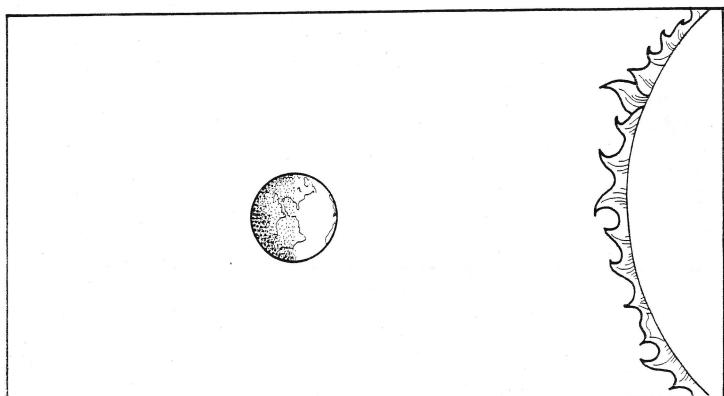
WORD BANK

Earth orbit

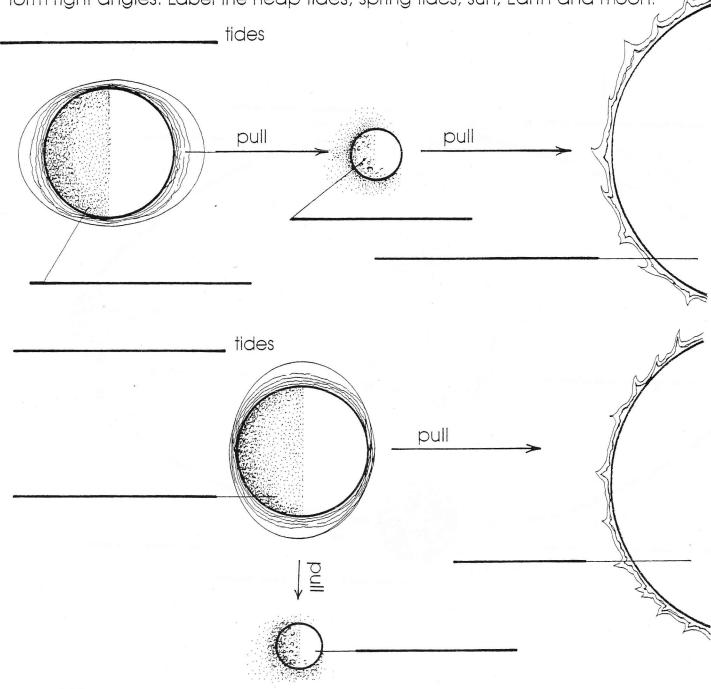
moon orbit sun

moon Earth's shadow When the sun, moon and Earth are in the proper alignment, either the moon can ast a shadow on the Earth, or the Earth can cast a shadow on the moon. Draw the position of the moon and the shadows for both a lunar and solar eclipse. Label the type of eclipse.





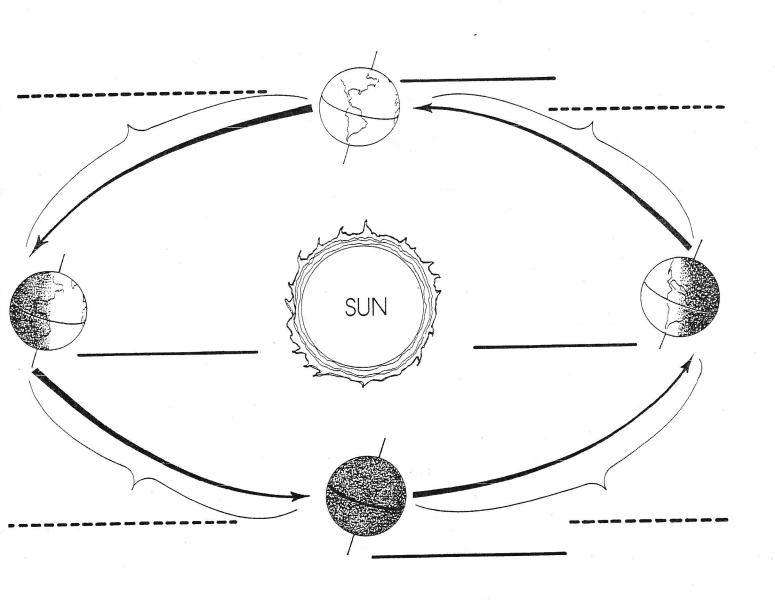
The ocean tides are caused mostly by the moon's gravity. When the Sun, moon and Earth line up, the gravitational pull is greatest causing the highest tides, the spring tides. The lowest tides, neap tides, occur when the sun, Earth and moon form right angles. Label the neap tides, spring tides, sun, Earth and moon.



WORD BANK

neap tides moon spring tides Earth sun

The diagram below shows the Earth's position in its orbit on four different dates. On the solid line label the equinox dates. On the dotted lines name the season or the Northern Hemisphere.



WORD BANK

March 21 September 22 December 22 June 21 spring winter

fall summer