Name	•	Class	<u> </u>	Date	
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Skills Worksheet

Directed Reading 26.2 (FVEN)

Section: Movements of Earth THE ROTATING EARTH

Use the terms from the list below to complete the sentences that follow. Each term may be used only once. Some terms may not be used.

ay be used only onc	ce. Some terms may not b	e used.
daylight	rotation	revolution
east	nighttime	year
day	west	night
1. The spinning of E	Earth on its axis is called _	<u> </u>
2. A complete rotati	on of Earth takes about or	ne
3. As Earth rotates f	from west to east, the sun	seems to rise in the
	 •	
4. The sun appears	to set in the	
•	facing the sun at any give	
		,
6. The part of Earth	facing away from the sur	n at any given moment experiences
•		
7. What did Foucau	ılt's pendulum provide in	the 19th century?
8. What happens to	the path of a pendulum of	ver the course of a day?
9. What causes the	apparent change in the pa	oth of a pendulum?
10. What causes def	lection of ocean currents	and wind belts?
		· 11 14 1-01-4-1 in the Norther
11. In which direction Hemisphere? in	on are ocean currents and the Southern Hemisphere	wind belts deflected in the Norther?
, 12-12-12-14-14-14-14-14-14-14-14-14-14-14-14-14-		
12. What is the curv	ving of the path of wind b	elts and ocean currents called?

HE REVOLVING EARTING. 3. What is the average sp	eed of Earth as it travels around the sun?
4. How long does each co	omplete revolution of Earth around the sun take?
the space provided, wri	te the letter of the definition that best matches the term
15. revolution	a. a closed curve whose shape is determined by two
16. orbit	points within the curve b. the point in a planet's orbit at which the planet is
17. ellipse	closest to the sun
18. perihelion	c. the motion of a body that travels around another body in space
19. aphelion	d. the point in a planet's orbit at which the planet is farthest from the sun
	e. the path that a body follows as it travels around another body in space
0. What is the shape of I	Earth's orbit around the sun?
1. What is Earth's aphel	ion distance? Earth's perihelion distance?
CONSTELLATIONS AN 2. What is a constellation	
.2. What is a constenance	
	tional Astronomical Union do in 1930?



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Directed Re	eading continued			
25. What cau evening?		of a constellati	on to appear to	change during an
				<u> </u>
				change, at the same
time of the	he evening, over	a period of sev	erai weeks?	
			·	
				•
IEASURIN	G TIME	•		
27. T	he basis for the n	neasurement o	f time is	
	. the sun's motion		•	
* b	. the moon's mot	ion.		
	. Earth's motion.	•		
d	l. the galaxy's mo	otion.	, •	,
28. T	The measurement	of a day is det	ermined by	•
	a. the rotation of I	_	-	
t	. Earth's revoluti	ion around the	sun.	
_	e. the moon's mo			
Ċ	d. the period betw	reen successive	e full moons.	
29. 7	The measurement	of a vear is de	termined by	
	a. the rotation of			
. 1	o. Earth's revolut	ion around the	sun.	·
	c. the moon's mo			
(d. the period betw	veen successiv	e full moons.	•
30.	The measurement	of a month is	based on	
	a. the rotation of			•
. 1	b. Earth's revolut	ion around the	sun.	
	c. the moon's mo	,		
	d. Earth's motion	around the me	oon.	
31	Each rotation of I	Earth on its axi	s takes	
	a. 24 hours.		c. 365 day	s.
	b. 29.5 days.	÷	d. $365\frac{1}{4}$ de	avs.
	0. 27.3 days.	•	4	, 2.
32	Each complete re	volution of Ea	rth around the	sun takes
	a. 24 hours.	James Jan Ga Add	c. 365 day	
	b. 29.5 days.		d. $365\frac{1}{4}$ d	•
r	υ. Δ9.5 uays.		u. 505 4	,

ne	Cli	ass	Date	
irected Reading	continued			
		ed as roughly		
	month is determin	ied as roughly		
a. 29.5 d	ays.			
	velfth of a year.			•
c. 28 day				
d. 365 da	iys.			•
24 Who we	re the first people	to use a calend	lar based on a so	olar year?
a. the A				•
b. the Ro				
	abylonians			
d. the E			•	•
35 Who cre	ated a calendar ba	sed on a 12-m	onth lunar year?	· ·
a. the R			•	æ
	abylonians			
	gyptians			
d. the A				
66. What is a calen	dar?		` .	·
	•		·	
·				
37. Why is the ext	ra one-quarter day	of the year us	ually ignored?	
	•			
38. What is a leap	year? Explain wh	y it is necessar	iy.	
	•	′		·
		·		
·			•	
			amosting the year	ly calendar as
	nan rulers were re	sponsible for c	reading the year	Ty Caronaar as
we know it?				
			·	
	1.1 1.1 Dom	o Gracowi VII	Laddress and h	ow did his
40. What calenda	r problem did Pop	e Gregory An	1 addiess, and n	OVV WIN IN
committee so	ive it?			
,				,
	•			

	Define noon.	, 1		
1 1.	Define noon.			• 1
		11 (1 110.1	n 1 ·	
42.	Is it noon at the same time a	all over the world?	Explain your answe	r.
	,			
	-			
		1 05 11 04	1 1.*	
43.	How many degrees does ea	ch of Earth's 24 sta	indard time zones co	over?
	Explain your answer.			
•		•		
		<u> </u>		
	·.			
44	. How is the time in one zon	e different from the	time in the zone ea	st of it?
		•		
	·			
45	. What is the International D	ate Line? What doe	es it mark?	
			<u> </u>	
				· · · · · · · · · · · · · · · · · · ·
	. Why is daylight time short	er in the winter mo	nths than in the sum	mer mont
16	. Willy is daying in thine short	of his time with the line.		
46				
	. Why does the United State	s use daylight savir	ngs time from Marc	h to
		s use daylight savir	ngs time from Marc	h to
	. Why does the United State	s use daylight savir	ngs time from Marc	h to
47	. Why does the United State November?			
47	. Why does the United State November? 3. According to daylight savi			
47	. Why does the United State November?			
47	. Why does the United State November? 3. According to daylight savi			
47	. Why does the United State November? 3. According to daylight savi			
47	November? According to daylight savi	ngs time, what do v	we do to clocks in M	farch and
47	. Why does the United State November? 3. According to daylight savi	ngs time, what do v	we do to clocks in M	farch and

Name	Class Date
Direc	ted Reading continued
THE S	EASONS
·	50. Earth's axis is a. vertical. b. tilted at 12°. c. tilted at 23.5°. d. 90°.
	51. During each revolution of Earth, the North Polea. sometimes tilts toward the sun and sometimes tilts away.b. is always vertical.c. always tilts toward the sun.d. always tilts away from the sun.
	52. When the North Pole tilts toward the sun, the Northern Hemisphere has a the same amount of daylight as the Southern Hemisphere.b. longer periods of daylight than the Southern Hemisphere.c. shorter periods of daylight than the Southern Hemisphere.d. varying periods of daylight compared to the Southern Hemisphere.
	 53. When the North Pole tilts away from the sun, the sun's rays strike the Northern Hemisphere a. vertically. b. more directly. c. less directly. d. horizontally.
· · ·	 54. Seasons are caused by a. Earth's rotation on its axis. b. changes in the angle at which the sun's rays strike Earth. c. the distance of a place from the equator. d. differences in Earth's time zones.
	_ 55. Fewer daylight hours mean a. less solar energy. b. more solar energy. c. higher temperatures. d. a longer season.
,	 56. During winter in the Northern Hemisphere, a. the North Pole tilts away from the sun. b. the North Pole tilts toward the sun. c. the sun's rays strike the Northern Hemisphere at a high angle. d. the sun's rays create more daylight hours.



Name	Class	Date	
Directed Reading continue	ed		
57 When it is winte	r in the Northern Hemi	sphere, the Southern	
Hemisphere exp			•
a. winter.	•		
b. summer.	·		
c. spring.			
d. fall.	· ·		
Hee the terms from the list	below to complete the	sentences that follow. Each	term
may be used only once. So	me terms may not be u	sed.	
autumnal equinox	hemisphere	equator	
equinox	vernal equinox	celestial equator	
		the equator on Earth is cal	led
58. An imaginary line in th	e sky directly overhead	the equator on Earth is call	ica
the	·		•
59. The moment when the	gun annears to cross the	e celestial equator is a(n)	
59. The moment when the	sun appears to cross un	, 00100ttar oquator 15 4()	
	•		.•
60. During an equinox, the	e angle of the sun's ravs	along the	
00. During an equition, and			
	is 90°.		
61. The beginning of fall i	s marked by the	, occur	rring
on September 22 or 23	3 in the Northern Hemis	phere.	
62. The beginning of sprin	ng is marked by the	, fa	lling
on March 21 or 22 in	the Northern Hemisphe	re.	
63 What is true of the ho	urs of daylight and dark	mess everywhere on Earth a	at an
equinox?			
•			
C4 XXII +4 in a polation?		e de la companya de l	
64. What is a solstice?			
	•		
65. What begins on the se	olstices each year?		
What oeghts on the si	ordination amount it amounts	•	
 			
	•		

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Di	rected Reading continued			
66.	Along what imaginary line dithe summer solstice? Where	lo the sun's ray is this line loc	s strike Earth at a 90° a ated?	ingle during
	What happens to the sun in t solstice?	the Northern H	emisphere during the st	ımmer
68.	How does the period of day during the summer solstice?	light change de	pending on your location	on on Earth
69.	Along what imaginary line the winter solstice? Where i	do the sun's ra	ys strike Earth at a 90° ted?	angle during
70.	Describe the hours of dayling solstice.	ght in the North	nern Hemisphere during	g the winter