	•	•		
Name	Class		Date	

Skills Worksheet

Directed Reading 21.4 (EVEN)

rediction?						
					-	
		` .		.,	h	
•				•		
escribe the orig	ins of scienti	fic weather	forecasti	ng.		
				C		
		 	· · · · · · · · · · · · · · · · · · ·	•		
				·		
					-	
ist seven types	of weather of		reported	from w	eather s	tations
ist seven types	of weather of		reported	from w	eather s	tations
ist seven types	of weather of		reported	from w	eather s	tations
ist seven types	of weather of		reported	from w	eather s	tations
ist seven types	of weather of		reported	from w	eather s	tations
ist seven types	of weather of		reported	from w	eather s	tations
ist seven types	of weather of		reported	from w	eather s	tations
ist seven types	of weather of		reported	from w	eather s	etations
ist seven types	of weather of		reported	from w	eather s	tations
ist seven types round the world	of weather of	oservations				
ist seven types around the world	of weather of	oservations				
What are three s	of weather of	oservations				



Name	Class Date
Directed Reading continued	
WEATHER MAPS	*
a. onto weather stations. b. to weather stations. c. onto weather maps. d. to weather instruments	
it can be understood arou a. words and colors b. words and numbers c. symbols and letters d. symbols and colors 7. A pattern of meteorologi particular observing stati a. a station model. b. a station report. c. the station forecast. d. the station weather.	use to communicate data on a weather map so and the world? ical symbols that represent the weather at a ion and that is recorded on a weather map is d speed and direction, and weather conditions,
what else do station models ind	
9. What is the dew point, and wha	at does it indicate about the air?
	· · · · · · · · · · · · · · · · · · ·
10. Describe the number and the line model, and explain what they s	ne in the upper right-hand corner of the station show.
	i e

me	Class	Date
Directe	ed Reading <i>continued</i>	
<u> </u>		
1	1. Lines that connect points of equal tempera	ture on a weather map are
	called	
	a. isolines.	•
	b. isotherms.	•
	c. thermal lines.	
	d. isobars.	
. 1	2. Lines on a weather map that connect point	s of equal atmospheric
^	pressure are	or equal assisspinerie
	a. isopressures.	
	b. isotherms.	
	c. pressure lines.	
	d. isobars.	•
1	3. Closely spaced lines of atmospheric pressu	re indicate high wind
	speeds and	
	a. no change in pressure.	
	b. wet weather.	•
	c. a gradual change in pressure.	
	d. a rapid change in pressure.	
1	14 Isohara that form aireles on a visather man	and marked with an II on
¹	 Isobars that form circles on a weather map L and indicate centers of 	are marked with an in or
	a. heat and light.	
	b. high pressure and low pressure.	\$
	c. high temperature and low temperature.	
	d. high clouds and low clouds.	`
~ XX75		•
5. Wha	at do common weather symbols describe?	
		·
•		
6. On	a weather map, what identifies a front?	
7. Hov	w are areas of precipitation commonly marked	on weather mans?
	1 Transition Commission of Millians	and the state of t
•	_	

Original content Copyright © Holt McDougal. All rights reserved. Additions and changes to the original content are the responsibility of the instructor.

Holt McDougal Farth Science

	Class		
irocted Read	ing continued		
medied Read	ing continued		
			, .
EATHER FOR	RECASTS		
. How do met	eorologists forecast the w	eather?	
		•	
		·	
·	,		
. How do con	nputers use information s	upplied by Doppler radar a	nd satellite
images?		•	
•			
	······································	a than one computer mode	to forecast
	y meteorologists use mor	e than one computer mode	to forecast
Explain why weather.	y meteorologists use mor	e than one computer mode	to forecast
	y meteorologists use mor	e than one computer mode	to forecast
	y meteorologists use mor	e than one computer mode	to forecast
	y meteorologists use mor	e than one computer mode	to forecast
	y meteorologists use mor	e than one computer mode	to forecast
	y meteorologists use mor	e than one computer mode	to forecast
	y meteorologists use mor	e than one computer mode	to forecast
weather.		e than one computer model	
weather.			
weather.	of weather information of	an be predicted most accur	rately?
weather.	of weather information of	an be predicted most accur	rately?
weather.	of weather information of		rately?
weather.	of weather information of	an be predicted most accur	rately?
weather.	of weather information of	an be predicted most accur	rately?
weather.	of weather information of	an be predicted most accur	rately?

23 Explain how meteorologists a	ce comput	ers to make more accurate forecasts
23. Explain now incoordingists u	se comput	ers to make more accurate forecasts
		
		· ·
•		
		· · · · · · · · · · · · · · · · · · ·
		,
In the space provided, write the le or phrase.	tter of the	description that best matches the to
24. nowcasts		oredict weather accurately 3 to 5 da shead
25. daily forecasts	-	predict weather over monthly and
26. extended forecasts	5	seasonal periods
27. medium-range		predict weather for a 48 h period
forecasts	. d. 1	predict weather 3 to 7 days ahead
28. long-range forecasts		ssued when severe weather has been spotted or is expected within 24 h
29. watch		use radar and enable forecasters to
30. warning		focus on timing precipitation and racking severe weather
		ssued when the conditions are idea for severe weather
CONTROLLING THE WEATHER		
31. What is cloud seeding?		
or white is broad sooding.		
32. How has cloud seeding been to	ısed in Rus	ssia?
,		

Name	Class	Date	
Directed Reading continu	ued		
33. How have scientists at	tempted to control hu	ricanes?	
		. , .	
34. Why have scientists al	oandoned storm and h	urricane control?	
		`	
		i	
35. How have scientists a	ttempted to control lig	htning?	
36. What have been the re	esults of attempts at li	ghtning control?	,
			·
		·	