Name	Class	Date
Skills Worksheet		
Directed Re	eading	
0 - 4 1		
Section: Atmosph	eric Moisture	
1. The states in which wa	ater exists in the atmosphe	re are called
2. The gas phase of water	r is called	·
3. The solid phase of wat	ter is called	•
4. The liquid phase of wa	ater is called	·
CHANGING FORMS OF	WATER	
a. when water in b. when evapor c. when heat er	ter change from one phase molecules are held station ration occurs nergy is absorbed or releas ules are in a crystalline arr	ed .
a. moye more of b. become static c. become cryst d. slow down.	onary.	of ice
7. What phase doe a. gas b. liquid c. crystals d. solid	es ice change into when it	absorbs energy?
8. When liquid wa a. a gas. b. a liquid. c. crystals. d. a solid.	ter absorbs energy, it chan	ges to
9. What happens to a They move cl b. They collide to c. They become	loser together, more frequently, stationary,	n the water absorbs energy?

Name		Class	Date	
Direct	ed Reading continued			
	10. The process in which the and form invisible water a. condensation.b. latent heat.c. evaporation.d. collision.	he fastest-movin er is called	g molecules escape from liq	quic
1	 The name for heat ener change is a. latent heat. b. evaporation, c. water vapor. d. potential energy. 	gy that is absorb	ed or released during a phas	se
1	When liquid water evap a. releases energy into b. condenses into water c. starts to flow more ra d. absorbs energy from	the atmosphere. vapor. apidly.		
1	3. What happens to energya. It condenses to formb. It melts ice.c. It is reflected into thed. It becomes potential	a liquid. e atmosphere.		
1	4. The name for the procest liquid isa. condensation.b. latent heat.c. collision.d. evaporation.	s in which wate	r vapor changes back into a	
1.	5. During the condensationa. is released into the wb. disappears.c. is released into the sud. is absorbed by the wa	ater. rrounding air.	heat	
10	6. What happens to latent l a. It is released. b. It is absorbed, c. It is recycled, d. It is lost	neat when ice th	iws?	

Nam	e rected Reading <i>continued</i>	Class	Date	
	17. When water freezo a. condenses. b. is released into c. evaporates	es, latent heat		
 19, V	d. is absorbed. 18. Through what pro a. evaporation b. absorption c. condensation d.release Where on Barth does mos		enter the atmosphere?	
- 20. N	Iame four other importar	nt sources of water va	por in the atmosphere.	
; -		2		
 21 E3	low are plants, volcanoes		1.4.14.	.1.
at	mosphere?	s, and outling ides i	stated to water vapor in	tne ·
_ 23. W	hat is the name of the p	ocess in which a soli	d changes directly into	a gas?
	nder what conditions mi			
_			,	•

Directed Reading continued	ClassDate
HUMIDITY In the space provided, write the or phrase.	e letter of the definition that best matches the term
26. humidity 27. dew point 28. absolute humidity 29. mixing ratio 30. What controls humidity?	 a. the temperature at which condensation equals evaporation b. water vapor in the atmosphere c. the mass of water vapor contained in a given volume of air d. the mass of water vapor in a unit of air relative to the mass of the dry air
31. What determines the rate of	`evanoration?
32. What happens to the rate of33. What determines the rate of	evaporation as the temperature gets higher? condensation?
condensation, the air is	
36. The measure of the actual ar	mount of water vapor in the air is called the
42. The ratio of the actual w vapor needed to reach saturation	ater vapor content of the air to the amount of water n is called
43. If a person wanted to know she would calculate the	how close the air is to reaching the dew point,he or
46. What can make the relative change?	humidity change even if the temperature does not
47. What can make the relative I the same?	humidity increase if the moisture in the air remains

Name_		Class	Date
	nat happens to the relative hur isture in the air remains const		e temperature increases as the
49. WI	nat can cause air to cool to its	dew point?	
-			
50 Wh	nat is the name of the condens	ation that f	forms during the night?
51. Wh	nat causes dew to form?		
	,		
HUM	IDITY		,
In the s		of the def	inition that best matches the term
	55. dew cell		strument used to measure relative
	56. electrical conductance		dity consisting of two identical nometers
	57. psychrometer	b. the a c. an in humi	bility to conduct electricity strument used to measure dity consisting of a heater and electrodes
58. Wh	y do meteorologists measure l	numidity?	
59. Wh		hloride in	a dew cell absorbs water from the
60. Wh	at happens as the water evapo	rates from	the LiCl?
61. The	temperature at which the LiC	l in a dew	cell loses its ability to conduct
elec	tricity is the	····	,
Original conte	eat Copyright © by Holt, Rinehart and Winston. Addition	s and changes to the	e original content are the responsibility of the instructor.
			Motor in the atmosphere

	Class Date
2. What is the difference between	en the two thermometers of a psychrometer?
	the wet-bulb thermometer differ from that of the psychrometer is whirled through the air?
· · · · · · · · · · · · · · · · · · ·	
r phrase	etter of the definition that best matches the ter
r phrase 66. hair hygrometer	an instrument that measures humidity at high altitudes
r phrase	 a. an instrument that measures humidity at high altitudes b. an instrument that measures relative humidity by using a bundle of hairs c. a package that carries instruments into
r phrase 66. hair hygrometer 67. radiosonde	 a. an instrument that measures humidity at high altitudes b. an instrument that measures relative humidity by using a bundle of hairs c. a package that carries instruments into the atmosphere