ame	Class	Date	· · · · · · · · · · · · · · · · · · ·
Skills Worksheet	· · ·		
Directed Re	ading		
Section: Atmosphe	eric Moisture		
1. The states in which wa	ter exists in the atmo	osphere are called	
<u> </u>		•	
2. The gas phase of water	is known as		
3. The solid phase of water	er is known as		
4. The liquid phase of wat	ter is known as	· '	· · · · · · · · · · · · · · · · · · ·
HANGING FORMS OF V	VATER		, · .
a. when water nb. when evaporac. when heat en	er change from one proceed on the collection occurs or its absorbed or its absorbed or its less are in a crystalling.	ationary released	
6. When ice absorb a. move more question b. become station c. become crysta d. slow down.	onary.	ules of ice	
	s ice change into wh	en it absorbs energy	?
a. gas b. liquid c. crystals d. solid	*		
	ter absorbs energy, i	t changes to	
a. a gas.b. a liquid.c. crystals.d. a solid.			
•	more frequently. stationary.	s when the water ab	sorbs energy?

Name_		Class	Date	·
Dire	cted Reading continued		٠.	
2,10				,
	10. The process in which	the fastest-mo	ving molecules e	scape from liquid
	and form invisible wa			
•	a. condensation.			
	 b. latent heat. 			•
	c. evaporation.			
	d. collision.			
	11. The name for heat end	ergy that is abs	orbed or released	l during a phase
•	change is			
•	 a. latent heat. 		•	
	b. evaporation.	•		
•	c. water vapor.			
	d. potential energy.		•	•
	10 3371 and it maid another and		4	•
	12. When liquid water eva	-		·
	a. releases energy into	_	re.	•
	b. condenses into water	_		•
	c. starts to flow more			•
	d. absorbs energy from	n me envnom	ient.	
	13. What happens to energ	gy absorbed by	water during ev	aporation?
	a. It condenses to form			•
	b. It melts ice.	-	•	
	c. It is reflected into the	he atmosphere	•	
٠	d. It becomes potentia	l energy betwe	een water molecu	les.
٠,	1.4 FD1 Co. 41 a mass			
 	14. The name for the proc	ess in which w	ater vapor chang	es back into a .
•	liquid is		•	
	a. condensation.	•		
	b. latent heat.			
	c. collision.			
	d. evaporation.	•		
	15. During the condensation	on of water. la	tent heat	• •
	a. is released to the wa	•		•
•	b. disappears.	•		
,	c. is released into the	surrounding ai	r.	•
	d. is absorbed by the v	_		
			0	
	16. What happens to laten	t neat when ice	tnaws!	
	a. It is released.			·
	b. It is absorbed:			
	c. It is recycled.			•
	d. It is lost.	-		

Directed Reading continued	·	 ;-
17. When water freezes, latent heat		•
a. condenses.	•	:
b. is released into the air.		
c. evaporates.	:	
d. is absorbed.	* .	
18. Through what process does most water enter the	atmosphere?	
a. evaporation		
b. absorption		
c. condensation		
d. release	•	
9. Where on Earth does most evaporation take place?		•
	, ·	•
		<u>.</u>
	•	•
		•
). List four other important sources of water vapor in the a	tmospnere.	
		٠.
		···
	· · · · · · · · · · · · · · · · · · ·	
<u> </u>	·	
•		
		•
1. List three lesser important sources of water vapor in the	atmosphere.	
	-	
•		
		•
· ·		
2. What usually happens to ice before it changes into a gas	i?	•
	<u> </u>	<u> </u>
3. What is the name of the process in which a solid change	s directly into a	gas?
1		_
4. Under what conditions might sublimation of snow and i	ce occur?	
4. Officer what conditions inight submittation of show and		
	•	
	,	
•		
5. Water vapor can turn directly into ice without becoming	g a(n)	,
5. Water vapor can turn directly into ice without becoming	g a(n)	•

Directed Reading continued		
		,
UMIDITY		
•	tter of the definition that best matches the term	
phrase.		
26. humidity	 a. the temperature at which condensation equals evaporation 	
27. dew point	b. water vapor in the atmosphere	
28. absolute humidity	c. the mass of water vapor contained in a	
29. mixing ratio	given volume of air	,
29. mixing facto	d. the mass of water vapor in a unit of air relative to the mass of the dry air	
). What controls humidity?		
. What determines the rate of ev	anaration?	٠.
. What determines the rate of ev	aporation:	
2. What happens to the face of eve	aporation as the temperature gets higher?	
3. What determines the rate of co	ndensation?	
		•
4 TT1	41.4	۹ .
4. The part of the total atmospher	ic pressure that is caused by water vapor is	
5. When there is equilibrium betw	veen the rate of evaporation and the rate of	
	veen the rate of evaporation and the rate of	
condensation, the air is	 	
condensation, the air is	 	
condensation, the air is	 	
condensation, the air is The measure of the amount of the amoun	water vapor in the air is called	
condensation, the air is The measure of the amount of the amoun	water vapor in the air is called	
condensation, the air is	water vapor in the air is called late the absolute humidity?	•
condensation, the air is	water vapor in the air is called	•
condensation, the air is	water vapor in the air is called late the absolute humidity?	•
condensation, the air is	water vapor in the air is called late the absolute humidity?	

) Whatiet	he mixing ratio	of air tha	t has 18 o	of water v	zanor in	1 kg of	air?
,	no mixing rade	. OI WII WA		or water	upor m		
W/hot in a	common mixi	na ratio fo	r air in no	ar region	e? ·		
, what is a	Common maxi	ng rano ro	an in poi	ar region	. 	,	:
. Why is th	e mixing ratio	not affect	ed by chan	ges in ter	nperatur	e or pre	ssure?
		,			 	,	
					•	•	• · · · · · · · · · · · · · · · · · · ·
. The ratio	of the actual w	ater vapoi	content o	f the air to	o the am	ount of	water
vapor nee	ded to reach sa	aturation is	s called	<u>.</u>	<u> </u>	· .	
If a perso	n wanted to kn	ow how c	lose the air	is to read	ching the	e dew p	oint, he
or she wo	uld calculate th	he	· .	·			
			proted at 2	5 °C?			
. How wou	oint does air b				at is at 2	25°C ar	nd
. How wou	· ·				at is at 2	25°C ar	nd
. How wou contains :	ld you express	the relativ	e humidit	y of air th			· .
. How wou	ld you express g of water?	the relativ	e humidit	y of air th			· .
. How wou contains: . What can change?	ld you express g of water? make the related make the related	the relativ	e humidit	y of air th	ne tempe	erature o	loes not
. How wou contains : . What can change?	ld you express g of water? make the related make the related	the relativ	e humidit	y of air th	ne tempe	erature o	loes not
. What can the same? . What hap	ld you express g of water? make the related make the related	the relative humid	te humidity ity change	y of air the	ne tempe	erature o	loes not
. How wou contains : . What can change? . What can the same?	ld you express g of water? make the relatemake the	the relative humid	te humidity ity change	y of air the	ne tempe	erature o	loes not
. How would contains? . What can change? . What can the same? . What hap moisture	ld you express g of water? make the relatemake the	the relative humid	ty change ity increased dity if the ht?	y of air the	ne tempe	erature o	loes not
. What can change? . What can the same? . What hap moisture	ld you express g of water? make the relatemake the	the relative humid	ty change ity increased dity if the ht?	y of air the	ne tempe	erature o	loes not
. How wou contains : . What can change? . What can the same? . What hap moisture	ld you express g of water? make the relatemake the	the relative humid	ty change ity increased dity if the ht?	y of air the	ne tempe	erature o	loes not

ame	Class	Date	<u> </u>
Directed Reading continued		,	
. What causes dew to form?			
			,
· · · · · · · · · · · · · · · · · · ·	•		•
Under what conditions is dew	most likely to form?		
3. What is the form of condensati		w point falls	below the
freezing temperature of water?			
. What is the difference between	frost and frozen dew	······································	<u></u>
		- dv.	
		<u> </u>	· · · · · · · · · · · · · · · · · · ·
EASURING HUMIDITY			n
the space provided, write the let phrase.	ter of the definition tha	at best match	es the term
55. dew cell	a. an instrumer		
56. thin polymer film	relative hum identical the	idity consisti rmometers	ng of two
57. psychrometer	b. used in an el	lectrical hygr	ometer.
		nt used to me iidity consisti nder and two	ng of a
Why do meteorologists measur	e humidity?		
with the meteorologists incustr	· · ·		
Describe how a thin polymer fi	lm is used to measure	relative hum	idity.
			f
		<u> </u>	·
· .			
•			,
What is the difference between	the two thermometers	of a psychro	meter?
· · · · · · · · · · · · · · · · · · ·			
		•	

Directed Reading continued	
1. What happens to the water in energy when the psychromete	the wick of a wet-bulb thermometer and the er is whirled through the air?
	the wet-bulb thermometer differ from that of the psychrometer is whirled through the air?
3. What would you use to calcul	ate the relative humidity from a psychrometer?
	m chloride in a dew cell absorbs water from the
air?	
dew cell can determine the	•
the space provided, write the le	etter of the definition that best matches the term
the space provided, write the lephrase. 66. hair hygrometer	•
the space provided, write the lephrase. 66. hair hygrometer 67. radiosonde	a. an instrument that measures humidity at high altitudes b. an instrument that measures relative
the space provided, write the lephrase. 66. hair hygrometer	a. an instrument that measures humidity at high altitudes b. an instrument that measures relative humidity by using hair
the space provided, write the lephrase. 66. hair hygrometer 67. radiosonde	a. an instrument that measures humidity at high altitudes b. an instrument that measures relative
the space provided, write the legrange. 66. hair hygrometer 67. radiosonde 68. electric hygrometer	a. an instrument that measures humidity at high altitudes b. an instrument that measures relative humidity by using hair c. a package that carries instruments into the atmosphere
the space provided, write the lephrase. 66. hair hygrometer 67. radiosonde 68. electric hygrometer	a. an instrument that measures humidity at high altitudes b. an instrument that measures relative humidity by using hair c. a package that carries instruments into the atmosphere
the space provided, write the lephrase. 66. hair hygrometer 67. radiosonde	a. an instrument that measures humidity at high altitudes b. an instrument that measures relative humidity by using hair c. a package that carries instruments into the atmosphere
the space provided, write the legrange. 66. hair hygrometer 67. radiosonde 68. electric hygrometer	a. an instrument that measures humidity at high altitudes b. an instrument that measures relative humidity by using hair c. a package that carries instruments into the atmosphere
the space provided, write the legrange. 66. hair hygrometer 67. radiosonde 68. electric hygrometer	a. an instrument that measures humidity at high altitudes b. an instrument that measures relative humidity by using hair c. a package that carries instruments into the atmosphere s, what happens to hair?
the space provided, write the lead phrase. 66. hair hygrometer 67. radiosonde 68. electric hygrometer	a. an instrument that measures humidity at high altitudes b. an instrument that measures relative humidity by using hair c. a package that carries instruments into the atmosphere s, what happens to hair?
the space provided, write the lead phrase. 66. hair hygrometer 67. radiosonde 68. electric hygrometer	a. an instrument that measures humidity at high altitudes b. an instrument that measures relative humidity by using hair c. a package that carries instruments into the atmosphere s, what happens to hair?

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