Name	Date											
Water Cycle Quiz Practice												
Fill-in-the-Blank - Write the letter for each from the word bank that best completes each statement. Each word is only used once.		· · · · · · · · · · · · · · · · · · ·										
1 is the type of energy water to begin evaporation. It is reby the number 1 in the illustration.		6										
when water turns from liquid to a go enters the air. It is represented by number 2 in the illustration.	as and	Word Bank										
3 is produced when water other particles high in the atmospher 3 is produced when water 3 is produced when w	ere where temperatures are											
	Earth's surface in frozen or liquid form. It is represented by the number 4 in the illustration.											
5 is the water that mov	es over around after snow m	nelt and H. sling										

on

	word bank that best completes each	_ ~	- (X)
statemen	t. Each word is only used once.	~~	1
1.	is the type of energy that causes water to begin evaporation. It is represented by the number 1 in the illustration.	223 (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	6
2.	is the phase in the water cycle when water turns from liquid to a gas and enters the air. It is represented by the number 2 in the illustration.	h thi	Word Bank
3.	is produced when water vapor conde other particles high in the atmosphere where tem It is represented by the number 3 in the illustrate	peratures are colder.	A. evaporation B. relative humidity C. heat
4.	is the phase in the water cycle wher Earth's surface in frozen or liquid form. It is reprumber 4 in the illustration.		D. precipitation E. dew point F. condensation G. humidity
5.	is the water that moves over ground precipitation or from underground sources. It is number 5's in the illustration.		H. sling psychrometer I. transpiration J. run-off
6.	is the phase in the water cycle wher gas to a liquid and collects to dust particles creati		K. infiltration L. cloud
7.	is the evaporation of water from plan	nts.	
8.	is the phase of the water cycle when into the ground.	water from rain and sno	ow melt soaks
9.	is moisture in the air.		
	is the temperature at which water of the model of the cooled over the air temperature has cooled over		cally occurs in
	We use the term to compare how moisture the air can hold at a particular temperate		compared to
	. A is a tool used to measure relative mometers.	humidity. It is made up	of wet- and dry

## Multiple Choice

 13.	Colder	air
		_

- a. Can hold more water vapor than warm air
- b. Can hold less water vapor than warm air
- c. And warm air have the same ability to hold water vapor
- d. Cannot hold any water vapor

14. Th	e water	cycle	is	driven	by	energy	from
--------	---------	-------	----	--------	----	--------	------

- a. The moon
- b. The oceans
- c. The Sun
- d. Earth's core

\_\_\_\_\_ 15. When water condenses on the outside of a glass, where does the water come from?

- a. The water in the glass
- b. The ice in the glass
- c. New water is invented
- d. Water from the air around the glass

## Using a Chart - Use the chart below to answer questions #16.

16. Two thermometers were used to measure relative humidity and the bulbs showed the following readings; determine the relative humidity.

dry bulb:  $26^{\circ}C$  wet bulb:  $20^{\circ}C$ 

relative humidity: \_\_\_\_%

Extra Credit: (A total of 3 points is possible and you must show your calculations!) You will not lose points if you are incorrect so, it's worth a shot!

				Re	lativ	ve l	lun	nidi	ty (	Cha	rt (	%)			
Temp Dry	Difference Between Dry Bulb and Wet Bulb Temperatures (°C)														
Bulb (°C)	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
2	84	68	52	37	22	8									
4	85	<b>70</b>	56	42	29	26	3								
6	86	<b>73</b>	60	47	34	22	11								
8	<b>87</b>	<b>75</b>	63	51	39	28	18	7							
10	88	<b>76</b>	65	54	44	33	23	14	4						
12	89	<b>78</b>	<b>67</b>	57	47	38	29	20	11	3					
14	89	<b>79</b>	69	60	51	42	33	25	17	9					
15	90	80	<b>71</b>	62	54	45	37	29	22	14					
18	91	81	<b>73</b>	64	56	48	41	33	26	19	6				
20	91	82	<b>74</b>	66	58	51	44	37	30	24	11				
22	91	83	<b>75</b>	68	60	53	46	40	34	27	16	5			
24	92	84	<b>76</b>	69	62	55	49	43	37	31	20	9			
26	92	85	77	<b>70</b>	64	57	51	45	39	34	23	14	4		
28	92	85	<b>78</b>	<b>72</b>	65	59	53	47	42	37	26	17	8		
30	93	86	<b>79</b>	<b>73</b>	<b>67</b>	61	55	49	44	39	29	20	12	4	
32	93	86	80	<b>74</b>	68	62	56	51	46	41	32	23	15	8	1
34	93	<b>87</b>	81	<b>75</b>	69	63	58	53	48	43	34	26	18	11	5
36	93	<b>87</b>	81	<b>75</b>	<b>70</b>	64	59	54	50	45	36	28	21	14	8
38	94	88	82	<b>76</b>	<b>71</b>	65	60	56	51	47	38	31	23	17	11
40	94	88	82	77	<b>72</b>	66	62	57	52	48	40	33	26	19	13
42	94	88	83	77	72	<b>67</b>	63	58	54	50	42	34	28	21	16
44	94	89	82	<b>78</b>	73	68	64	59	55	51	43	36	29	23	18

A dry bulb reading on thermometer read  $30^{\circ}C$ . A student then calculated the relative humidity to be 73%.

\_\_\_\_\_ a) For 1 point, determine the wet bulb reading.

\_\_\_\_\_ b) For 1 point, convert the dry bulb reading to °Fahrenheit. The conversion formula is:

$$F = \frac{9}{5}C + 32$$

c) For 1 point, complete the following: If the amount of water vapor in the air stays the same and the air temperature decreases, the relative humidity will <u>increase/decrease/stay the same/not be affected</u>. (Circle the word or phrase that makes the statement true.)