~"							
Weath	ther Chapter 2 Test  ple Choice  fy the choice that best completes the statement or answers the question.						
	1.	The greenhouse effect is  a. the absorption of energy by clouds.  b. the reflection of solar energy into the atmosphere.  c. the process by which gases hold heat in the atmosphere.					
	2.	<ul><li>The total energy of motion in the particles of a substance is called</li><li>a. radiation.</li><li>b. thermal energy.</li><li>c. temperature.</li></ul>					
	3.	<ul><li>a. 0°C.</li><li>b. 32°C.</li><li>c. 100°C.</li></ul>					
	4.	Heat transfer between two substances that are in contact is called a. conduction. b. convection. c. radiation.					
	5.	<ul><li>a. conduction.</li><li>b. convection.</li><li>c. radiation.</li></ul>					
	6.	Most of the heating of the troposphere comes from  a. conduction.  b. convection.  c. radiation.					
	7.	Winds are caused by differences in  a. precipitation.  b. humidity.  c. air pressure.					
	8.						
	9.	Local winds differ from global winds because they  a. are caused by unequal heating within a small area.  b. are caused by differences in cloud cover.  c. are due to unequal rainfall.					
	10.	The smalled the					

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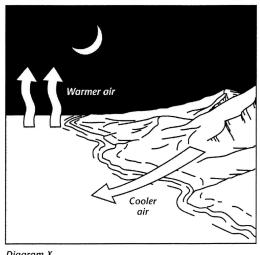
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*	
11.	The doldrums are characterized by
	a. cool temperatures.
	b. weak winds.
	c. falling air.
12.	(41-)
	a. psychrometer.
	b. barometer.
	c. thermometer.
13.	
	a. the absorption of infrared energy.
	b. the presence of particles in the air.
	c. the influence of the Coriolis effect.
14.	Large clouds that often produce thunderstorms are called
	a. stratus clouds.
	b. cumulonimbus clouds.
	c. cirrus clouds.
15.	Very high feathery clouds are called
	a. stratus clouds.
	b. cumulonimbus clouds.
	c. cirrus clouds.
16.	
	a. stratus clouds.
	b. cumulonimbus clouds.
	c. cirrus clouds.
17.	
	a. evaporation.
	b. condensation.
	c. precipitation.
Modified	True/False
	hether the statement is true or false. If false, change the identified word or phrase to make the statement
true.	
Word Ban	k: 2 True
1.	On the Celsius scale, the freezing point of pure water is 0°.
2.	When you touch a hot spoon, heat is transferred by conduction from the spoon to your hand.
3.	Earth's major wind belts are the trade winds, the prevailing westerlies, and the polar <u>latitudes</u> .
4.	The three main types of clouds are cumulus, stratus, and altos.
	The amount of water vapor in the atmosphere that condenses and falls to Earth can be measured with a
3.	psychrometer.

1.	radiation, scattered, ultraviolet, wind-chill radiation can cause sun burns and skin cancer.							
2.	Solar energy called radiation is felt as <u>heat</u> .							
3.	Heat is transferred from the sun to Earth by							
4.	The transfer of heat by the movement of a fluid is called							
5.	In the atmosphere, some of the sun's rays get, or reflected in all directions.							
6.	The increased cooling that a wind can cause is called the							
7.	Winds that blow steadily from specific directions over long distances are							

## **Short Answer**

Use the diagram to answer each question.

## **Local Winds**



Warmer air Cooler

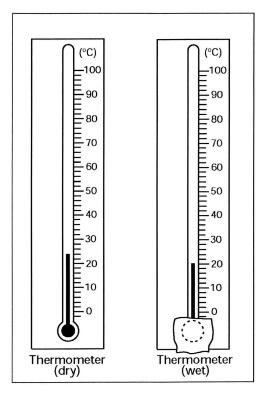
Diagram X

Diagram Y

- 1. (Use Chapter 2 R&R Packet "Twister Packet")
  - A. Finish drawing the convection cells above for **Diagram Y**. (+2)
  - B. Record the location of High and Low Pressure on **Diagram Y**. (+2)
  - C. With complete sentences, explain how the Sea Breeze in Diagram Y occurs. (+2) (+1 grammar / punctuation)

Use the diagram to answer each question.

Relative Humidity



Dry-Bulb Reading	Difference Between Wet- and Dry-Bulb Readings (°C)					
(°C)	1	2	3	4	5	
10	88	76	65	54	43	
12	88	78	67	57	48	
14	89	79	69	60	50	
16	90	80	71	62	54	
18	91	81	72	64	56	
20	91	82	74	66	58	
22	92	83	75	68	60	
24	92	84	76	69	62	
26	92	85	77	70	64	
28	93	86	78	71	65	
30	93	86	79	72	66	

- 2. What is the temperature of the dry-bulb thermometer? \_\_\_\_\_ (+2)
- 3. What is the temperature of the wet-bulb thermometer? \_\_\_\_\_ (+2)
- 4. Based on the temperatures shown in the diagram, what is the relative humidity of the air?

\_\_\_\_ (+2)

5. Which relative humidity below represents dry air? (+2)

45 %, 75% 90%