Name:	Hour:	
	ni-Weather-Text" Book Test <b>VEATHER</b>	
1. Name the three main "ingredients" (facto	ors) that interact to cause our weath	ner:
2. If I put my hand under a heat lamp and fe	eel heat on my skin, the energy is be	eing transferred by:
A. Convection	B. Radia	tion
C. Solar occurrence	D. Conduc	ction
3. Explain the greenhouse effect in your own	n words (3 pts):	
		_
4. What type of weather instrument do we u	se to measure wind speed?	
5. A barometer measures		
6. What are the <b>U.S.</b> units of measurement the barometer? BONUS: what are the <b>metric</b> un (circle 2 pairs of answers)?		<del>-</del>
A. Isobarometric pressure and isotherm	B. Degrees Celsius	and Millibars
C. Degrees Fahrenheit and Inches of mer	cury D. Inches and	Milliliters
7. Which is more dense, warm air or cool air?	?	
8. How do dark colored surfaces on the eart	h affect temperature (3 points)?	

9. What is the name of the direct transferring of heat through a (usually solid) material?

10. What occurs on or around June 21st every year day of the year?	that gives us more hours of sunlight than any other	
11. What is the vocabulary term for a large body o throughout?	f air with similar temperature and moisture content	
12. In North America, the jet streams cause weathe	er patterns to move mostly in which direction?	
A. North to south	B. East to west	
C. West to east	D. It changes all the time	
13. When is cloud cover most likely to help keep ou	utside air temperatures from falling rapidly?	
A. During the day	B. When tides occur	
C. Only on leap years	D. At night	
14. What type of low cloud can bring rain?		
15. What middle cloud appears puffy—resembling	cotton or another fluffy material?	
16. What high cloud is a white milky ice-crystal clou	nqś	
A. Altostratus	B. Cirrus	
C. Nimbostratus	D. Cirrostratus	
17. What are the three major steps of the water cy	cle (list a fourth for a bonus point)?	
18. What are isobars (2 pts)?		
19. How can isobars help indicate the direction an	d strength of wind (be complete for 2 points)?	

20. List the three main types of fronts and briefly explain their characteristics (12 points):		
21. Are clear skies usually brought on by high or lo	ow pressure systems?	
22. Winds always blow from:		
A. Higher to lower pressure areas	B. Cold to maritime pressure centers	
C. Lower to higher pressure areas	D. One low pressure area to another low pressure area	
23. Draw and label the water cycle (6 points):		

24. What type of cloud is often accompanied by thunder and lightning?

- \_\_\_\_\_
- 25. A whirling, funnel shaped cloud that develops in low, heavy cumulonimbus clouds and touches the ground is a:
- 26. Cold water sinking to the bottom of an aquarium and pushing up warm water is an example of:

A. Convection

B. Radiation

C. Solar occurrence

D. Conduction

27. If a spoon is left in a pot of soup on the stove, the handle of the spoon will become too hot to handle. The metal in the spoon transfers heat from the pot because of:

A. Convection

B. Radiation

C. Solar occurrence

D. Conduction

## 28-35. Draw in the following symbols on the map below for full credit, use correct colors:

- 28. High pressure center over Idaho, Washington, and Oregon in the Northwest U.S.
- 29. Low pressure center over Texas
- 30. Low pressure center over Eastern Minnesota and Northwest Wisconsin
- 31. High pressure area in Canada north of New York and the Northeast U.S.
- 32. Draw a stationary front between the two low pressure weather systems
- 27. Draw a warm front line moving across Michigan to the east
- 34. Draw a cold front line between the high pressure system in the Northwest (#28 above) and the low pressure system in the Midwest (#30 above) moving east
- 35. Draw 3 Isobars around the High pressure system in the Northwest that are spread out on the left and closely spaced on the right

