

Name \_\_\_\_\_

Pd. \_\_\_ Date \_\_\_\_\_

1. Name the gases in the atmosphere and the percentages of each of these gases. Chapter 14-16 Red Book

2.

Term	Description	Example(s)
Convection		
Conduction		
radiation		

3. a. What is the difference between the greenhouse effect and global warming?

b. What could be causing global warming to occur?

4. Name the four layers of the atmosphere. Then describe each layer's usefulness.

5. What causes temperature differences in each layer of the atmosphere?

6. Air pressure decreases as \_\_\_\_\_ increases.

7. a. What causes wind?

b. What causes global winds to appear to curve instead of following a straight path? What is the name of this effect?

c. Name the global winds and the latitudes each travels between.

8. a. Name examples of local winds.

b. What causes local winds?

c. Wind occurs because air tends to move from areas of \_\_\_\_\_ pressure to areas of low \_\_\_\_\_.

9. What causes differences in air pressure on Earth?

10. What is a cloud made of?

11. List the main cloud affixes and their meanings.

12.

Front	Description/drawing of air masses	Type of weather front brings
Warm front		

Cold front		
Stationary front		
Occluded front		

13. What causes changes in the weather?

14. What is dew point? What is the relative humidity when temperatures reach the dew point? What has to happen with temperature relative to the dew point in order for condensation to occur?

Define the following and use pictures if needed:

15. continental tropical (cT) -

16. continental polar (cP) -

17. maritime tropical (mT) -

18. maritime polar (mP) -

19. isobars -

20. humidity -

21. water vapor -

22. weather vs climate (difference) -

23. relative humidity -

What do each of the following instruments measure:

24. windsock -

25. barometer -

26. radar -

27. thermometer -

28. anemometer -

29. What factors create surface currents in the ocean? How are these factors different from the factors that create deep water currents?

30. Why do cities near large bodies of water have more consistent temperatures throughout the year than cities that are far away from large bodies of water? \*Make sure you can read the information on a weather map like the Weather Maps worksheet you completed.\*