

Name _____ Date _____ Hour _____

6th Grade Weather Study Guide

1. Where does most of the hail fall in the U.S.? Look in your book p.53
2. Use the weather map on p. 56 and identify what time hail may have fell in that area and at least two reasons why.
3. What is the temperature directly above the surface of the Earth? Warmer or colder than Earth's surface? Why?
4. Name a color that absorbs sunlight.
5. Name a color that reflects sunlight.
6. Define absorption
7. Define reflection
8. Look at the 3 bottles on p. 16 of your science book or the worksheet I gave you and answer questions 8-11. Identify how many arrows should be drawn in each bottle.
9. Why did you draw the same number of molecules in each bottle?
10. Why did the bubble fall inside of the bottle?
11. Why did the bubble expand outside of the bottle?

Look at the balloon picture on the same worksheet or p. 17 & answer the following questions

12. Why is the balloon deflated? Explain what the molecules are doing.
13. How many molecules should be drawn in the inflated balloon?
14. Why is the balloon inflated? Explain what the molecules are doing.
15. What are CCN's?
16. Explain the conditions that need to be present for a thunderstorm to occur.
17. Define convection current
18. Define conduction
19. Explain what an updraft is and why it occurs.
20. What would cause a strong updraft?
21. Define precipitation
22. Define evaporation

23. What happens to molecules when they are heated?
24. What happens to molecules when they are cooled?
25. Define temperature
26. Draw a picture of a convection current
27. Draw a picture of conduction
28. Explain the relationship between updraft & hailstone size.
29. Draw a picture of a thunderstorm and include the following items in your drawing:
Labels, arrows, convection current, precipitation, evaporation, updraft, temperatures, % of RH, molecular movement