

Name\_\_\_\_\_

## Solutions Webquest

Click on the following website to go to your first site

<http://www.solubilityofthings.com/basics/>

1. What are the two parts of a solution? \_\_\_\_\_
2. Define a solute:
3. Define solvent:
4. Define solubility:
5. What is equilibrium in chemistry?

Click on the following website to go to your second site...

<http://www.chem.purdue.edu/gchelp/solutions/character.html>

6. The concentration of a solution represents the \_\_\_\_\_ of  
\_\_\_\_\_ in a unit amount of \_\_\_\_\_  
or of solution.
7. Concentrated solutions have a \_\_\_\_\_ amount of solute.
8. Diluted solutions have a \_\_\_\_\_ amount of solute.

Click the following website to go to your third site...

<http://misterguch.brinkster.net/molaritytutorial.html>

9. Describe an unsaturated solution:
10. Describe a saturated solution:
11. Describe a supersaturated solution:
12. What happens when you add more solute to an unsaturated solution?
13. What happens when you add more solute to a saturated solution?

Click the following link to go to your fourth site...

<http://ga.water.usgs.gov/edu/solvent.html>

14. Why is water called a "universal solvent"?

15. What makes water an excellent solvent?

16. How do water and our kidneys work together?

17. Why does salt dissolve in water?

Click the following link to go to your fifth site...

[http://www.solubilityofthings.com/basics/factors\\_affecting\\_solubility.php](http://www.solubilityofthings.com/basics/factors_affecting_solubility.php)

18. What are the five factors that affect solubility?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

19. How is solubility affected by temperature?

19. Define polarity:

20. How does polarity affect solubility?

21. What is the aphorism used by chemists to describe polarity?

22. How does the pressure of a gas affect solubility?

23. How does molecular size affect solubility?

25. How does stirring affect solubility?

Click the following link to go to your sixth site...

<http://www.kentchemistry.com/links/Kinetics/SolubilityCurves.htm>

26. What are solubility curves used for?

27. Draw and label the solubility curve you see on the website below.



28. On the line=\_\_\_\_\_ (\_\_\_\_\_ can \_\_\_\_\_ hold anymore \_\_\_\_\_)

29. Below the line=\_\_\_\_\_ (\_\_\_\_\_ hold more \_\_\_\_\_)

30. Above the line=\_\_\_\_\_ (holding \_\_\_\_\_ than it should, \_\_\_\_\_ condition)