

1. solute-

2. solvent-

3. Give an example of each type of solution:

Solute	Solvent	Example
Gas	Gas	
Liquid	Gas	
Gas	Liquid	
Liquid	Liquid	
Solid	Liquid	
Solid	Solid	

4. Explain how sodium chloride dissolves in water

5. Explain how sugar dissolves in water.

6. Explain in detail how salt “melts” ice roads in the winter?

7. Give 3 factors affect dissolving rates?

8. Explain why the temperature of water might increase when a solution forms.

9. Explain why oil does not dissolve in water.

10. Describe how you might increase the solubility of a solid in a liquid.

11. Explain how to make a supersaturated solution.

12. acid-  
properties:

13. base-  
properties:

14. Draw and label the pH scale.  
Add three examples each of acids and bases.

15. Identify each of the following compounds as an acid, base, or salt:

NaOH-

NaCl-

HCl-

16. What happens when a solution of nitric acid ( $\text{HNO}_3$ ) is added to a solution of potassium hydroxide ( $\text{KOH}$ )? \_\_\_\_\_

What are the products? \_\_\_\_\_ and \_\_\_\_\_

17. What is universal indicator?