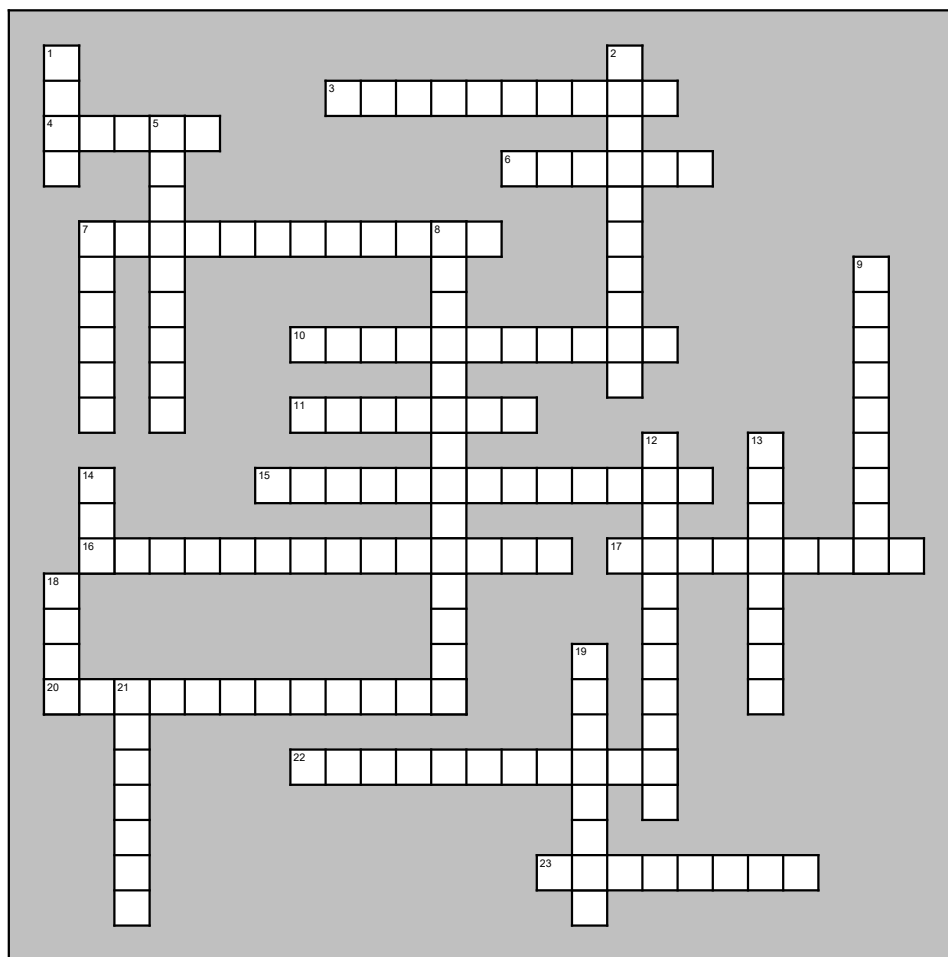


Crossword



Across

3. The dissolving process in which molecules react to form ions by gaining or losing electrons in a chemical reaction. A new substance is formed.
4. Phase of matter that dissolves most in warmer temperature solutions.
6. The substance that is dissolved in a solution.
7. Elevates when more solute is added to a solution. Pressure cooking uses this colligative property.
10. Substances that dissociate or ionize in water. Strong acids or bases dissociate almost completely.
11. Chemists use a 0 to 14 range to indicate the concentration of hydronium ions in a solution. Acids are lower than 7, bases higher than 7. 7 is neutral.
15. Depresses (gets lower) when more solute is added to a solution. Making ice cream and thawing roads use this colligative property.
16. A very unstable solution that contains more solute than normal due to heating the solution. e.g. hand warmers, hard candy
17. A solution that holds the maximum amount of solute it can before settling out. Adding more solute will not dissolve in that solvent at that temperature.
20. Dissolving of an ionic compound that separates into ions (cations and anions) in solution by a physical change.
22. The amount of solute that can dissolve in a solvent depends on the _____ and phase of the solution. Heating usually dissolves more solid.
23. The number of moles of solute found in a liter of solution. Establishes a standard for concentration (amount of solute dissolved) of solutions.

Down

1. A substance whose pH is greater than 7. Found in drain cleaner, soap, antacids, deodorant. Bitter taste. Slippery feel.
2. The ability of a solute to dissolve in a solvent. e.g. grams of solute/100 grams of solvent
5. Substance that changes color in an acid or base. Litmus turns red in an acid and blue in a base.
7. Weak acids and bases are used to form solution that resist changes in pH.
8. When a strong acid and strong base are mixed to form salt and water (harmless) with a pH of 7. A double replacement reaction.
9. Bases contain excess _____ ions. The concentration of these ions raises the pH.
12. A solution that can hold more solute. Describes a glass of water with a pinch of salt added to it.
13. Acids contain excess _____ ions. The concentration of these ions lowers the pH. More accurately called "hydronium" ions.
14. Phase of matter that dissolves most in colder temperature solutions.
18. A substance whose pH is less than 7. Found in soda pop, stomach digestive juice, vinegar, car batteries and most fruits. Sour taste.
19. Homogeneous mixture, having one phase and no boundaries. Looks like "same kind".
21. The substance that dissolves the solute in a solution.