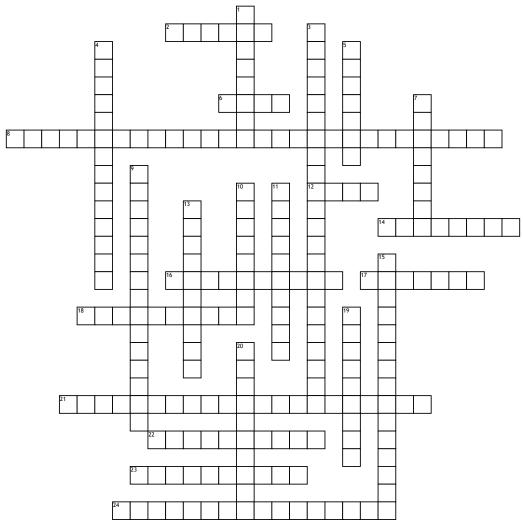
Neutralization Crossword Puzzle



Across

- **2.** A solution where the pH is constant when small amounts of acid or base is added
- **6.** Substance that ionizes in water and produces hydroxide ions
- **8.** pH = pKa + log [A-] / [HA]
- **12.** Substance that ionizes in water and produces hydrogen ions
- **14.** Point in titration when neutralization is achieved
- **16.** A weak acid which changes color in certain pH ranges due to Le Chatelier's principle
- **17.** pH =

- **18.** Dissociates completely in water and reaction goes to completion
- **21.** Measures of the strengths of weak acids and bases
- **22.** pH = 12-14
- 23. Conjugate of a weak base
- **24.** Point in titration when there are equal amounts of acid and base

Down

- 1. Conjugate of a strong acid
- 3. A reaction where an acid and base react in water to form water and a salt
- **4.** Some acid that can give up more than one hydrogen ion in a solution
- **5.** pOH =

- 7. When a ______ is placed in water, a small amount of its molecules dossociate into hydrogen ions and conjugate base ions 9. pH = 7
- 10. Conjugate of a strong base
- 11. A substance that can act as an acid or a base
- **13.** pH = 0-3
- **15.** A weak acid and its conjugate base remain in a solution together without neutralizing each other
- **19.** A solution of known concentration is added to a solutin of unknown concentration until the indicator signals the endpoint
- 20. Conjugate of a weak acid

Word Bank

Neutral solution Weak acid Titration Acid Weak base Dissociation constants - log[H+] -log[OH-] Strong acid Common ion effect Amphoteric Indicators Henderson - Hasselbalch Equation Equivalence point Polyprotic acid End point Buffer Weak acid Strong base Base Strong base Neutralization reaction Strong acid Strong acid