## Unit #13

**Regents Chemistry** 

## **Acids and Bases**

Text	Unit Objectives:
19.1	1. Know the characteristic properties of both acids and bases. Be able to identify an acid or base by looking at its formula.
19.1	2. Be able to define both acids and bases using the Arrhenius theory and Bronsted-Lowry theory. Know how each theory differs.
19.1	3. By looking at an acid-base reaction be able to identify an acid and its conjugate base. Also be able to identify a base and its conjugate acid.
19.4	4. Be able to explain the process of neutralization.
19.4	5. Be able to conduct an acid-base titration, know the products formed in the reaction, and be able to calculate the molarity of the solution titrated.
19.5	6. Using the $K_w$ value listed in table L for water be able to determine the $[H^+]$ concentration given the $[OH^-]$ concentration and vice versa.
19.2	7. Be able to determine the pH of a solution if given the $[H^+]$ concentration or the $[OH^-]$ . Be able to classify a solution as acidic basic or neutral given pH.
19.5	8. Given a salt's formula be able to determine if the salt will cause water to become acidic, basic, or neutral (hydrolysis).

Essential Vocabulary

Acid, Amphoteric, Base, Bronsted-Lowry acid (or base), Conjugate Pair, Hydrolysis, Indicators, Neutralization, pH, Strong Acid, Strong Base, Titration, Weak Acid, Weak Base

## Announcements: