Acid – Base: Unit Test Review

Arrhenius – acid and base
Bronsted-Lowry – Acids and Bases
                        - Conjugate Acid/Bases, be able to identify conjugates and state
Lewis – Acids and Bases

Strong acid and Strong base properties *(Know your SA and SB's!), explain strength in terms of structure and bonding.

pH, pOH problems

Ka, Kb, Kw problems
% ionization
pKa, pKb problems

Hydrolysis of Ions
Identifying Salt solutions as acidic, basic, or neutral (similar to the lab)
Calculating the pH of a salt.

Common Ion effect
What does it do to an existing acid or base system?

Buffers
What are they?
How do buffers work to control the pH—explanation with equations of how a buffer maintains the pH when a small amount of acid and base added.
Problems related to buffers – determination of pH of a buffer system,
                                    selecting an acid and its salt for a particular pH
                                    (see #16 on Buffer questions handout)

Titration problems