

Item	Performance/Task: The student will:	text (Tro)
Buffers, Titration, K_{sp}, K_f and K_d		
1	Be able to calculate the pH of a buffer.	16.2, 16.3
2	Be able to calculate the titration curve for either a strong acid/weak base titration or a strong base/weak acid titration	16.4
3	Be able to calculate the pH of an end point a determine the appropriate indicator	16.5
4	Be able to calculate the common ion effect for solubility using the K_{sp} (type 1)	16.6, 16.8
5	Be able to calculate the molar solubility from any starting solution given the K_{sp} (type 2)	16.6, 16.8
6	Be able to combine solubility calculations with pH	16.9
7	Be able to do type 1 or type 2 problems involving complex ions using either the K_f or K_d	16.10
8	Be able to combine pH, complex ion and solubility problems, especially to the qualitative analysis scheme	16.11
9	Be able to calculate any complete titration curve between a strong acid and a weak base or between a strong base and a weak acid. ...also be able to plot these titration curves.	Lab exercise