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| **Week** | **Week of** | **Experiment** | | **Writing Component** | | **Prelab Assignment** | | **Online Quiz** |
| **Group A** | **Group B** | **Group A** | **Group B** | **Group A** | **Group B** |
| **1** | August  17 | Check In/ Use of Analytical (Volumetric) Glassware | Safety/ Writing Introduction  ***Virtual*** |  |  | Entrance Quiz 1 |  |  |
| **2** | August  24 | Safety/ Writing Introduction  ***Virtual*** | Check In/ Use of Analytical (Volumetric) Glassware |  |  |  | Entrance Quiz 1 |  |
| **3** | August  31 | Synthesis of Alum and the Chemistry of Aluminum  ***Virtual*** | |  |  |  |  | Quiz 1  (Vol Glassware and Safety) |
| **4** | September 7 | Using Freezing Point Depression to Determine Molar Mass of an Unknown  (No Monday Labs)  ***Virtual*** | |  |  |  |  | Quiz 2  (Alum) |
| **5** | September 14 | Standardizing a KMnO4 Solution and Determining the Concentration of H2O2 Solutions by Titration | Balancing Oxidation and Reduction Reactions  ***Virtual*** | Turn in Data Tables and Graphs for Freezing Point | | Entrance Quiz 2 |  | Quiz 3  (Freezing Point) |
| **6** | September 21 | Balancing Oxidation and Reduction Reactions  ***Virtual*** | Standardizing a KMnO4 Solution and Determining the Concentration of H2O2 Solutions by Titration |  |  |  | Entrance Quiz 2 |  |
| **7** | September 28 | Spectrophotometric Analysis of Co2+ Solutions | Introduction to Spectrophotometry  ***Virtual*** | Turn in Data Tables for Redox Titration |  | Entrance Quiz 3 |  | Quiz 4  (Redox) |
| **8** | October  5 | Introduction to Spectrophotometry  ***Virtual*** | Spectrophotometric Analysis of Co2+ Solutions |  | Turn in Data Tables for Redox Titration |  | Entrance Quiz 3 |  |
| **9** | October 12 | Using Spectrophotometry to Calculate Keq | Kinetics of the Permanganate and Oxalate Reaction  ***Virtual*** | Turn in Data Tables and Graphs for Beer’s Law |  | Entrance Quiz 4 |  | Quiz 5 (Spectrophotometry) |
| **10** | October 19 | Kinetics of the Permanganate and Oxalate Reaction  ***Virtual*** | Using Spectrophotometry to Calculate Keq |  | Turn in Data Tables and Graphs for Beer’s Law |  | Entrance Quiz 4 |  |
| **11** | October 26 | Monitoring Acid-Base Titrations with a pH Meter | Exploration of Electrochemical Cells  ***Virtual*** | Turn in Data Table, Calculation and Procedure for Ksp |  | Entrance Quiz 5 |  | Quiz 6  (Keq and Kinetics) |
| **12** | November 2 | Exploration of Electrochemical Cells  ***Virtual*** | Monitoring Acid-Base Titrations with a pH Meter |  | Turn in Data Table, Calculation and Procedure for Ksp |  | Entrance Quiz 5 |  |
| **13** | November 9 | Identifying an Unknown Diprotic or Triprotic Acid by Determining Ka and Molar Mass  ***Virtual*** | |  |  |  |  | Quiz 7  (pH Titration and Electrochemistry) |
| **14** | November 16 | Written Lab Final | | | | | | |
| **15** | November 23 | Thanksgiving Break (No Labs) | | | | | | |
| **16** | November 30 | Quiet Week (No Labs) | | Turn in Diprotic Acid Writing Assignment | |  |  |  |