

Chemistry 51 Laboratory Schedule, Fall 2008

DATE

EXPERIMENT

3 September Check-in, Weighing, and Curve Fitting in Excel
10 September The Chemistry of Five Anions; the Use of Volumetric Glassware
17 September The Chemistry of Five Anions

Group:	A	B	C	D	E	F
24 September	GC	Neutron	pH	Cal	Mn(1)	Mn(1)
1 October	Cal	GC	Neutron	pH	Mn(2)	Mn(2)
8 October	Mn(1)	Mn(1)	GC	Neutron	pH	Cal
15 October	Mn(2)	Mn(2)	Cal	GC	Neutron	pH
22 October	pH	Cal	Mn(1)	Mn(1)	GC	Neutron
29 October	Neutron	pH	Mn(2)	Mn(2)	Cal	GC

5 November Molecular Modeling
12 November Inorganic Synthesis
19 November Inorganic Synthesis, Paramagnetic Susceptibility
26 November NO LAB except for authorized makeups
3 December Chemical Kinetics
10 December Check-out

The experiments during the period 24 September - 29 October will be run in a round-robin fashion. Each student will be assigned to a group designated by a letter. The schedule of experiments performed by each group is given by the column under the group's letter. The following shorthand is used in the table above: pH, Volumetric Acid-pH Meter; Mn(1), Colorimetric Determination of Mn (part 1); Mn(2), Colorimetric Determination of Mn (part 2); GC, Gas Chromatography; Neutron, Neutron Activation Analysis; Cal, Enthalpy of Reaction (formerly Calorimetry).

Lab work is only permitted during the scheduled lab period. Plan your work so that you will finish your experiments by the closing time, 17:00. The duplicate (yellow) pages from your laboratory notebook must be turned in each day to one of the lab assistants before you leave the laboratory. Lab reports will not be graded unless all duplicate pages for the experiment have been turned in; there will be a 10% penalty each time they are turned in late. With the exception of Enthalpy of Reaction, lab reports are due in class, i.e. at 09:00, on the Friday following scheduled completion. The report for enthalpy of Reaction has two parts. The section on your determination of the enthalpy change is due in class on Friday after completion of the experimental work. The section on the derivation of the QSAR is due in class on the following Wednesday. Reports that are up to one week late receive a 10% penalty; reports that are more than two weeks late will **not** be accepted. **No** written work will be accepted after the last day of classes, Wednesday, 10 December.