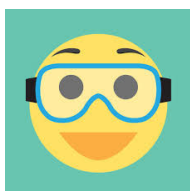


Lab Schedule – Fall 2019 (subject to change)



DON'T FORGET!

Safety goggles
No open-toed shoes
Pre-labs
Lab notebook



Dates	Experiment and Reading Material	Instrumentation and Analysis	Formal Report Due
T 8/20 W 8/21	Syllabus <i>Systematic and Random Error, Accuracy and Precision, Mean and Standard Deviation</i>	Accuracy and Precision; Random Error; Propagation; Error Bars; Graphing; Slope Error	
T 8/27 W 8/28	Density of Coins <i>Systematic and Random Error, Accuracy and Precision, Mean and Standard Deviation</i>	Accuracy and Precision; Random Error; Propagation; Error Bars; Graphing; Slope Error	T 9/3 W 9/4
T 9/3 W 9/4	Determination of the Gas Constant <i>Barrante 12-1 through 12-4; Problem 4, page 209</i>	Systematic and Random Error; Propagation	T 9/10 W 9/11
T 9/10 W 9/11	Heat Capacity Ratio	Propagation	T 9/17 W 9/18
T 9/17 W 9/18	Heat of Combustion (A) Computational Heat of Combustion (B) (coupled)	Bomb Calorimeter; Propagation; Spartan Modeling Software	
T 9/24 W 9/25	Heat of Combustion (B) Computational Heat of Combustion (A) (coupled)	Bomb Calorimeter; Propagation; Spartan Modeling Software	T 10/1 W 10/2
T 10/1 W 10/2	Heat of Hydration (A) Thermal Analysis of Sodium Sulfate Hydrate (B) (coupled)	Solution Calorimeter; Differential Scanning Calorimeter (DSC); Propagation	T 10/8 W 10/9
T 10/8 W 10/9	Heat of Hydration (B) Thermal Analysis of Sodium Sulfate Hydrate (A) (coupled)	Solution Calorimeter; Differential Scanning Calorimeter (DSC); Propagation	*R 10/17 *F 10/18
T 10/15 W 10/16	No Lab; Fall Break 		
T 10/22 W 10/23	Phenol-Water Phase Diagram (A) Freezing Point Depression (B)	Propagation	T 10/29 W 10/30
T 10/29 W 10/30	Phenol-Water Phase Diagram (B) Freezing Point Depression (A)	Differential Scanning Calorimeter; Error Bars; Graphing; Slope Error	T 11/5 W 11/6
T 11/5 W 11/6	Bismuth-Tin Phase Diagram (A) Viscosity of Sucrose Solutions (B)	Differential Scanning Calorimeter; Error Bars; Graphing; Slope Error	T 11/12 W 11/13
T 11/12 W 11/13	Bismuth-Tin Phase Diagram (B) Viscosity of Sucrose Solutions (A)	Differential Scanning Calorimeter; Error Bars; Graphing; Slope Error	T 11/19 W 11/20
T 11/19 W 11/20	Partial Molar Volume	Propagation; Graphing; Error Bars; Intercept Error	*M 12/2
T 11/26 W 11/27	No Lab; Thanksgiving Break 		

*Lab reports NOT due exactly one week after experimental work