

Lab	Week	Lab Topic	MathBench Assignment	Homework/Other
1	Jan. 7th	Intro, Scientific Method and Metric System	Mathbench: Tricks with Division, The Sizes of Things, Basic Lab Techniques	Experimental Design Homework TOSLS pre-test
2	Jan. 14th	Intro to Bean Beetles & Experimental Design Jigsaw		Exp. Design and Statistical Reasoning pre-test Proquest Research Companion Introduction
3	Jan. 21st	Set-up Bean Beetle Group Experiments*	Mathbench Sampling	Annotations on Mendeley
4	Jan. 28th	Water & pH: Acids, Bases, Buffers	Mathbench: log and pH	
5	Feb. 4th	Cells & Learning Microscopes		Macromolecule Lab via Youtube Videos
6	Feb. 11th	Diffusion	Mathbench: Diffusion	
7	Feb. 18th	Photosynthesis, Cellular Respiration, Fermentation	Mathbench: Graphing Primer	
8	Feb. 25th	Introduction Parasitoid Wasps, Mitosis and Meiosis	Mathbench: Normal Distribution Mathbench: Bar graphs and Standard Error	
9	Mar. 4th	Choice Chamber Experiments: Beetles & Essential Oils	Mathbench: t-test	
10	Mar. 18th	Parasitoid Bodywash Set-up, Genetics Practice Problem		Midterm
11	Mar. 25th	Parasitoid Bodywash Experiment, Antibiotics Introduction		Lab Notebook 1st Check
12	Apr. 1st	Plate Soil Samples, Learning to Use an Automatic Micropipet	MathBench: Viable Plate Count	
13	Apr. 8th	Antibiotics PCR	MathBench: Chopping Plasmids	
14	Apr. 15th	Practice Gels, Gel Electrophoresis Images and Conclusions		TOSLS post-test
15	Apr. 22nd	Scientific Poster Group Work		Exp. Design and Statistical Reasoning Post-test
16	Apr. 29th	Poster Presentation and Lab Final Exam		Lab Notebook Due

*Students collect data from their own inquiry projects weekly from this point.