Concepts Links: BIOL 120 Lecture & BIOL 121 Lab

BIOL 120 Lecture	LAB Linkage(s)
Chapter 1	Scientific method, research proposals and analysis using state diabetes data vs. other state variables (obesity, etc.) [LAB 1]
Chapter 2	
Chapter 3	Biuret tests for protein, focus on peptide bond [LAB 2]
Chapter 4	
Chapter 5	Iodine and Benedict's tests for polysaccharides and monosaccharides, difference between the two, focus on glucose [LAB 2]
Chapter 6	Sudan IV test for lipids, bi-layer, [LAB 2] Diffusion, homeostasis, osmoregulation, facilitated diffusion of glucose [LAB 4]
Chapter 7	
Chapter 11	Transduction pathways: Insulin-mediated glucose uptake into cells [LAB 4]
Chapter 8	Anabolic vs catabolic reactions, metabolic pathways and important enzymes [LAB 6]
Chapter 9	Cellular respiration in crawfish, focused on CO2 as bi-product and conversion to carbonic acid and subsequent pH change; students evaluate variables that can increase rate [LAB 7]
Chapter 10	Light reactions in isolated chloroplast, focused on reduction of DIP to DIPH (NADP to NADPH) and subsequent change in absorbance on spec; students evaluate variables that can increase rate [LAB 8]
Chapter 12	
Chapter 13	DNA extraction potential from polyploidy fruits [LAB 10]
Chapter 14	
Chapter 15	DNA extraction and molecular composition; DNA synthesis serves as backbone to understanding and completing PCR [LAB 11]
Chapter 16	Analysis of sequenced DNA to determine species in genebank, links DNA code to proteins to species (CYT b) [LAB 12]
Chapter 17	