

Name: Chris Johnson		Grading Quarter: 1	Week Beginning: 10/15/24
School Year: 24-25		Subject: AP Biology	
Monday	Notes:	Objective: Students will be able to 1. Describe the types of passive transport including simple diffusion, facilitated diffusion, and osmosis. Lesson Overview (Modeling/Lecture): 1. Notes and discussion including the drawing of models for each type of transport.	Academic Standards: AP Sci Practices 1A, 1B, 1C, 2A, 2D AP Content SYI 1.1, ENE 1.2
	Tuesday	Notes:	Objective: Students will be able to 1. Predict the direction of the flow of water based on the % solute concentration on either side of a semipermeable membrane. 2. Identify the hypertonic and hypotonic solutions on either side of a semipermeable membrane. Lesson Overview (Worksheet and video): 1. Osmosis videos and corresponding worksheet
Wednesday	Notes:	Objective: Students will be able to 1. Calculate the mathematical relationship (Surface Area to Volume Ratio) between surface and volume of various size cubes. 2. Relate high surface area to volume ratio to rates of diffusion into and out of a model cell. Lesson Overview (as a whole class): 1. Diffusion and Osmosis Lab – Part 1	Academic Standards: AP Sci Practices 1A, 1B, 1C, 2A, 2D AP Big Ideas ENE 1.2,
	Thursday	Notes:	Objective: Students will be able to: 1. Make solute (sucrose) solutions at various molar concentrations. 2. Measure the differences in Water Potential and % change in mass for a model cell placed in a hypotonic solution. Lesson Overview: 3. Diffusion and Osmosis Lab – Part 2 Check for understanding – Student work and teacher feedback
Friday	Notes:	Objective: Students will be able to: 1. Make solute (sucrose) solutions at various molar concentrations. 2. Measure the differences in Water Potential and % change in mass for a model cell placed in a hypotonic solution. Lesson Overview: 3. Diffusion and Osmosis Lab – Part 2 Check for understanding – Student work and teacher feedback	Academic Standards: AP Sci Practices 1A, 1B, 1C, 2A, 2D AP Big Ideas ENE 1.2, SYI 1.1

