Name: Langteau			Grading Quarter: 2	Week Beginr Week 12	ek Beginning: Week 12	
School Year: 2024/2025			Subject: Biology			
Monday	Notes:	Objective: Students will unde passive transport r Lesson Overview: This lesson introd importance of mai transport processe using real-world ex	rstand the basics of cellu nechanisms such as diffu uces the concept of cellu ntaining homeostasis. St es, including diffusion, fac kamples.	Academic Standards: HS-LS1-3		
Tuesday	Notes:	Objective: Students will analy selectively permea Lesson Overview: This lesson focuse through diffusion a experiment, such a osmotic pressure a	vze how diffusion and osr able cell membrane. as on how substances mo and osmosis. Students wi as using dialysis tubing or and diffusion in action.	nosis occur through the ve across the cell membrane Il conduct a simple lab r potato cores to observe	Academic Standards: HS-LS1-2	
Wednesday	Notes:	Objective: Students will unde energy (ATP) to me Lesson Overview: This lesson covers using energy, such exocytosis). Examp illustrate active tra	tive: Ints will understand active transport mechanisms and how cells use (ATP) to move substances against concentration gradients. In Overview: Iesson covers active transport, explaining how cells move materials energy, such as with pumps and vesicles (endocytosis and rtosis). Examples like the sodium-potassium pump will be used to rate active transport in action.			
Thursday	Notes:	Objective: Students will explo exocytosis) and ho Lesson Overview: This lesson focuse processes like end Students will parti- processes to take i	ore bulk transport proces w cells move large partic s on bulk transport, expl ocytosis (phagocytosis ar cipate in a group activity n or expel large molecule	ses (endocytosis and les in and out aining the role of vesicles in ad pinocytosis) and exocytosis. to model how cells use these es.	Academic Standards: HS-LS1-3	

	Notes:	Objective:	Academic
Friday		Students will conduct a lab experiment to investigate the effects of osmosis and diffusion on cell membranes and analyze the results	Standards:
			HS-LS1-3
		Lesson Overview:	
		In this culminating hands-on lab, students will design and carry out an experiment to observe diffusion and osmosis using living or non-living materials (e.g., egg membrane in various solutions or plant cells in salt water). The activity will help reinforce key concepts from the week's lessons.	