

Name: Langteau		Grading Quarter: 2	Week Beginning: Week 13
School Year: 2024-2025		Subject: Biology	
Monday	Notes:	<p>Objective: SWBAT distinguish between prokaryotic and eukaryotic cells, identifying their main characteristics and organizational differences.</p> <p>Lesson Overview: Begin with a quick video introduction to cell types. Discuss differences between prokaryotic and eukaryotic cells, focusing on structural differences. Engage students with a T-chart activity where they compare cell types based on structure and complexity.</p> <p>Introduction to Eukaryotic and Prokaryotic Cells</p>	<p>Academic Standards: HS-LS1-1 HS-LS1-2 HS-LS1-3 HS-LS1-6</p>
	Notes:	<p>Objective: SWBAT describe the structure and function of the nucleus, ribosomes, and endoplasmic reticulum and explain their roles in protein synthesis</p> <p>Lesson Overview: Start with a short lecture and diagram walk-through. Use interactive diagrams or models to highlight each organelle's role in protein synthesis. Conclude with a hands-on worksheet where students label and match functions to organelles.</p> <p>Organelles of Eukaryotic Cells – Part I (Nucleus, Ribosomes, Endoplasmic Reticulum)</p>	<p>HS-LS1-1 HS-LS1-2 HS-LS1-3 HS-LS1-6</p>
Wednesday	Notes:	<p>Objective: SWBAT explain the roles of the Golgi apparatus, lysosomes, and vacuoles in cellular organization and waste management.</p> <p>Lesson Overview: Discuss each organelle's function, emphasizing how cells process and store materials. Use a flow chart activity for students to map the path of a protein through the endomembrane system, from synthesis to export.</p> <p>Organelles of Eukaryotic Cells – Part II (Golgi Apparatus, Lysosomes, Vacuoles)</p>	<p>Academic Standards: HS-LS1-1 HS-LS1-2 HS-LS1-3 HS-LS1-6</p>

Thursday	Notes:	<p>Objective: SWBAT identify the structure and function of mitochondria and chloroplasts, understanding their roles in energy production.</p> <p>Lesson Overview:</p> <p>Introduce the concepts of cellular respiration and photosynthesis. Show diagrams and animations to illustrate the processes. End with a group activity where students explain how energy flows within a cell and discuss which organelles are crucial for energy transformation.</p> <p>Energy-Producing Organelles (Mitochondria and Chloroplasts)</p>	<p>Academic Standards:</p> <p>HS-LS1-1 HS-LS1-2 HS-LS1-3 HS-LS1-6</p>
Friday	Notes:	<p>Objective:</p> <p>SWBAT summarize the structure and function of all studied organelles, demonstrating their understanding through creative presentation.</p> <p>Lesson Overview:</p> <p>SWBAT research an assigned organelle, summarize its structure and function, and present findings to their peers in a clear and concise manner.</p>	<p>Academic Standards:</p> <p>HS-LS1-1 HS-LS1-2 HS-LS1-3 HS-LS1-6</p>