Learning Targets / Success Criteria: Unit: Matter and Energy in Ecosystems Data Team: 7th Science

Priority Standard:	MS-LS2-3 Ecosystems: Develop a model to describe the cycling of matter and flow of energy among living and nonliving parts of an ecosystem.
Overarching Skills:	Use models to communicate scientific information Provide quality feedback focused on the goal of the model Analyze and apply feedback to improve the clarity of the model Photosynthesis is the process by which a plant absorbs sun energy and combine it with water and carbon dioxide to produce glucose, and the byproduct oxygen. Cellular respiration is the process by which living things use oxygen and glucose to release energy available for cells to use, while carbon dioxide and water are released. Carbon cycles through an ecosystem including through photosynthesis and cellular respiration.
WALT:	We are learning to use models to communicate scientific information.
Success Criteria:	I can develop a model (2D or 3D) to show my thinking I can develop a model to show scientific thinking. I can develop a model that communicates scientific information and concepts I can develop a model that communicates the cause and effect relationship of a scientific concept I can develop a model that uses labels and/or measurements to communicate the cause and effect relationship of a scientific concept
WALT:	We are learning to gather and analyze feedback to increase clarity of the model.
Success Criteria:	I can seek feedback on the clarity of my model I can analyze feedback on the clarity of my model I can analyze feedback on the clarity of my model to make decisions about necessary improvements to my model I can gather and use feedback to improve my model to increase its clarity
WALT:	We are learning to explain the cycling of matter through ecosystems.
Success Criteria:	I can explain photosynthesis and how it affects an ecosystem. I can explain cellular respiration and how it affects an ecosystem. I can explain how carbon cycles through an ecosystem, with at least 4 different places in the carbon cycle