Learning Targets / Success Criteria: Unit: Populations and Resources Data Team: 7th Science

Priority Standard:	**MS-LS2-1 Ecosystems: Interactions, Energy, and Dynamics** Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem.
Overarching Skills:	Analyze resource availability data and population data (recognize cause and effect relationships) Use models to interpret outcomes Trace energy pathways in ecosystems Understand that birth and death rates change populations All parts of an ecosystem are affected by changes in resource availability
WALT:	We are learning to identify the resources needed for living things to survive
Success Criteria:	I can identify the sources of energy for organisms and draw an energy web I know that organisms need water, an energy source (food), suitable habitat, and air I can explain what happens to populations when resources are scarce I can explain what happens to populations when resources are abundant
WALT:	We are learning to use models to predict outcomes
Success Criteria:	I can analyze data from population simulations and determine why populations increase or decrease I can read graphs/data tables and use the information to explain changes in populations or resources.
WALT:	We are learning to trace the energy pathway in an ecosystem (from sun to decomposer)
Success Criteria:	I can make a food web with at least 4 energy pathways I can explain how energy moves through an ecosystem