

The “Laws” of Natural Systems
Trimester 2 Curriculum Map

Learning Targets	Content Sequence and Standards	Assessments
<p>I can explain the 3 "laws" of natural systems: thermodynamics, limits of growth, and self-organization.</p>	<p>Systems Refresher System Stories Forcing factor: Snow Systems Interactions Walk</p> <p>Limits to Growth Survival 101 – what do you <i>need</i> Rapa Nui – respecting limits Wessels Readings Comparative Analysis of Deer and Human Population Curves The Most Imptrant Discovery? -Nitrogen Fixation Case Study Bumper Sticker Activity</p> <p>Thermodynamics Messy Room Activity: an exploration of entropy Wessels Reading Ecosystem Analysis -Understanding Trophic Levels -Track the Energy Activity Ice Cream Lab LT summary On Demand Entropy Presentation</p>	<p>Formative Systems walks and discussions -</p> <p>Formative Oh Deer Lab It says, I say, and so discussions Limit To Growth Bumper Sticker</p> <p>Formative Food Web Activity Ice Cream Lab Taking Inventory – Writing about Learning Targets On Demand Presentation</p>
<p>I can analyze human systems by applying the laws of natural systems to them.</p>	<p>Quiz</p> <p>Self-organization Wessels Readings Nitch Discussion</p> <p>Analysis of Human Systems Project Student Presentations on research papers, and models of redesigned systems.</p>	<p>Summative Quiz Human System Analysis: - Paper - Model - Presentation</p>
<p>I can develop the skills of an earth sysem scientist</p>	<p>Earth System Stories Snow Walk Systems Interaction ID Walk Hypothesis, Theory, Law reading Oh Deer Analysis Energy Activity Analysis Nitrogen Fixation: Take a Stand Ice Cream lab Human Application Project</p>	<p>Evidence based on performance during labs and analysis activities</p>

