

## **Human Impacts: Water Use** **Middle School**

### **Overview**

Students will explore two models of water conservation, while collecting quantitative data on water that is conserved. Students will review the causes of water shortages in New Mexico and craft an argument about water shortages. Lastly, students will work in small groups to design solutions for water conservation in home design.

### **Phenomenon/Problem to Solve**

Why and how do we conserve water in New Mexico?

### **Next Generation Science Standards**

MS-ESS3-3: Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.

MS-ESS3-4: Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

<b>Science &amp; Engineering Practices</b>	<b>Disciplinary Core Ideas</b>	<b>Cross Cutting Concepts</b>
Engaging in argument from evidence  Constructing explanations and designing solutions	<b>ESS3.C</b> Human Impacts on Earth's Systems	Cause and effect

### **Common Core State Standards**

ELA-LITERACY.RST.6-8.3: Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.

ELA-LITERACY.RST.6-8.7: Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).