

**Mansfield Public Schools
Greenhouse Lesson Plan**

Lesson Title / Grade Level	Hold Back on Water Grade: 2
Content Area Objective(s)	<input type="checkbox"/> Students will know that water is necessary for a plant to live <input type="checkbox"/> Students will know what happens when a plant does not have water
Science Goals And Objective(s)	<input type="checkbox"/> Students will use inquiry skills (measuring, observing, hypothesizing, experimenting and communicating) to investigate the effect a selected variable has on plant growth and development.
Overview	Students will conduct an experiment to see what happens when a plant does not have water.
Time Needed/ Instructional Arrangements and Setting	30 minutes ½ the class at a time In the greenhouse
Prerequisites Or Pre-Teaching That Needs To Be Done	Students need to have a basic understanding of what a plant is, and what it needs for growth.
Procedure	<p>Initiation- Ask students to share what they know about plants and water. Answers should include that a plant needs water to live. Ask students what they think might happen if a plant did not get water. Tell them that they are going to find out.</p> <p>Students will take two healthy plants, and choose one to be the "control" plant (explain what control means in an experiment) and one to be the experimental plant. The control plant will be watered, and the experimental plant will not be watered. Have students write down their predictions of what will happen to each plant in their journals.</p> <p>Closure- Have students share their predictions, discuss what they will be looking for when they make their observations at the beginning of the next class.</p>
Materials	<input type="checkbox"/> 2 healthy plants <input type="checkbox"/> Water <input type="checkbox"/> Journals
Materials Notes	*If possible, teacher may want to provide enough plants for each child to have their own (control and experimental)
Differentiation Strategies	
Assessment Strategies	Students will be evaluated based on their attention and participation during the activity, as well as their contribution to the class discussion and completion of their journals