

Mansfield Public Schools Greenhouse Lesson Plan	
Lesson Title / Grade Level	How do Plants Breathe? Grade: 2
Content Area Objective(s)	<input type="checkbox"/> Students will know how plants breathe
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 learn how plants breathe, and conduct an experiment to see what will happen to a healthy plant when it is not allowed to breathe.
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 how they think plants breathe. Discuss their responses, and the correct answer (if no student knows). Share with them that plants breathe through their leaves.</p> <p>The students will take two healthy plants and cover the leaves of one plant with petroleum jelly. Make sure students understand that by doing this, they are cutting off the plant's air supply. Have students write 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"/> Two identical plants for each class* <input type="checkbox"/> petroleum jelly <input type="checkbox"/> water
Materials Notes	*Teacher could use only one plant for jelly, using it for all classes.
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