

**Mansfield Public Schools  
Greenhouse Lesson Plan**

<b>Lesson Title / Grade Level</b>	Beastly Bug Tea Grade: 4
<b>Content Area Objective(s)</b>	Students will know one of the organic insect remedies that the Native Americans used to protect their crops
<b>Science Goals And Objective(s)</b>	Students will make an organic insecticide to spray on their crops
<b>Overview</b>	Students will discuss the problem of insects and the effect they can have on crops. Students will discuss how we solve that problem today, and how Native Americans might have solved it. They will then make "Beastly Bug Tea" and use it to protect their own crops.
<b>Time Needed/ Instructional Arrangements and Setting</b>	30 minutes ½ the class at a time In the greenhouse
<b>Prerequisites Or Pre-Teaching That Needs To Be Done</b>	Students should have some background knowledge of Native American culture Students should have a basic understanding of the Three Sisters Garden
<b>Procedure</b>	Initiation- Ask students what they know about insects and gardens. Share their ideas. Ask how we protect our gardens today, ask how the Native Americans might have protected them. Discuss.  Procedure- Have students read over the "Beastly Bug Tea" worksheet. Provide materials and have students follow the recipe to make the tea.  Closure- Ask students what they learned. Tell them they will get to test out their Beastly Bug Tea on their crops when they are transplanted into the garden outdoors.
<b>Materials</b>	<ul style="list-style-type: none"> <li>• Beastly Bug Tea worksheet</li> <li>• Bulb of garlic</li> <li>• Onion</li> <li>• Hot pepper</li> <li>• Gallon of water</li> <li>• Bottle</li> </ul>
<b>Materials Notes</b>	Recipe comes from <i>In the Three Sisters Garden: Native American stories and seasonal activities for the curious child</i> A Common Roots Guidebook
<b>Differentiation Strategies</b>	
<b>Assessment Strategies</b>	Students will be evaluated based on their participation in the class discussion and the completion of their Beastly Bug Tea

Teacher Reflections	
Date of Lesson	What I want other teachers to know about this lesson is -