

**Mansfield Public Schools
Greenhouse Lesson Plan**

Lesson Title / Grade Level	Parts of a Seed Grade: 1
Content Area Objective(s)	Students will identify and name important parts of a seed (seed coat, embryo, and food supply). Students will observe differences in types of seeds.
Science Goals And Objective(s)	Students will observe parts of a seed. Students will describe parts of a seed. Students will identify different types of seeds.
Overview	Students will be able to explore the parts of a seed and learn about different types of seeds.
Time Needed/ Instructional Arrangements and Setting	45 minutes ½ the class at a time In the greenhouse
Prerequisites Or Pre- Teaching That Needs To Be Done	Students will have some basic knowledge of plants. **Before lesson, have some lima bean seeds soaked already, so students can compare and automatically be able to see inside a seed.
Procedure	Initiation- Ask class, what do you think is inside a seed? After the discussion, tell the class they will be looking inside a seed today. Procedure- <ol style="list-style-type: none"> 1. Divide class up into smaller groups. Give each group some soaked lima bean seeds and some dry seeds. Let students have time to make observations. Ask How are the soaked seeds different from the dry seeds? Also at this time, different types of seeds can be introduced and observed. 2. After discussion, have students carefully peel the seed coat away from a seed. Make sure to identify the seed coat and other parts of seed while lesson is going on. The two halves will then separate easily. Tell the students that the seed coat protects the seed until it can begin to grow. 3. When the students open the seeds, tell them that the biggest part of the seed is food for the baby plant to use until it can make its own food. Ask, which part of the seed do you think will grow into a plant? Have students observe and discuss the tiny plant inside the seed. 4. Hand out worksheet for students to label the parts of a seed that was just discussed. Leave seeds on table for students to refer back to. 5. After worksheet is complete, review parts of a seed. 6. Students will then be able to grow their own lima bean seed. Students will put a lima bean seed inside a plastic bag with a wet paper towel; they then can make their own paper greenhouse and make predictions of what is going to happen. Closure- Ask students what they learned about seeds
Materials	<ul style="list-style-type: none"> • Different types of seeds • Lima bean seeds • Paper towels, soaked • Plastic bags

	<ul style="list-style-type: none"> • Parts of a seed worksheet • Greenhouse Worksheet
Materials Notes	*Make sure some lima bean seeds are pre-soaked
Differentiation Strategies	Students will be grouped based on learning needs, so that strong students can help struggling students
Assessment Strategies	Students will be evaluated based on their participation in the class discussion and the completion of their worksheets and their lima bean greenhouse.

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