



Contributor: Sarah Dorset

State: Tennessee

Grade Level: 1st-4th Grade

Time Allocation: 1 hour

1. **Statement of the objective and lesson outcomes:** The students will understand the parts of a seed and be able to draw and label its parts.
2. **Materials, resources, and technology to be used by teacher/students:** Bean seeds, small magnifying glasses, pencil, paper, crayons, moist bean seeds and paper towels
3. **Introduction of the topic:** The teacher will draw on a board a seed that is opened to show embryo or baby plant and label the parts
4. **Procedure for instruction:** The students will each have a moist seed and will remove the seed coat and open the seed to expose the baby plant. He/she will then draw what they see on paper and color and label the parts of the seed.
5. **Lesson closure:** The students will each have a moist seed and will remove the seed coat and open the seed to expose the baby plant. He/she will then draw what they see on paper and color and label the parts of the seed.
6. **Assessment of student understanding:** The students will show an understanding of the lesson by sharing their drawings with the class.

Additional Questions for Discussion and Research:

1. What is germination?
2. Why do some seeds fail to germinate?
3. What do seeds need to germinate?
4. What are heirloom seeds?
5. Refer to the USDA Plant Hardiness Map for planting seasons in your area.
6. What are some plants native to Tennessee or your State?
7. What is the difference between perennials and annuals?

How did our ancestors plant their gardens?

8. Refer to the Farmers’ Almanac for planting tips.
9. What does planting by the signs mean?
10. How did our ancestors plant by the moon phases?
11. What did Native Americans teach about farming to the settlers?

Note: This lesson could be used in conjunction with Rye seeds and observing their growth as the students water and care for the seeds.