

**Project FOCUS
Best Lessons
FIRST GRADE**

Title of Lesson: Dried vs Soaked Beans

Theme: Life Science

Unit Number: 7 Unit Title: All About Plants

Performance Standard(s) Covered (enter code):

S1CS1

S1CS5

S1L1

Enduring Standards (objectives of activity):

Habits of Mind

- Asks questions
- Uses numbers to quantify
- Works in a group
- Uses tools to measure and view
- Looks at how parts of things are needed
- Describes and compares using physical attributes
- Observes using senses
- Draws and describes observations

Content (key terms and topics covered):

Plant needs, seeds, plants need water

Learning Activity (Description in Steps)

Abstract(limit 100 characters): Students will describe the differences between dried and soaked beans.

Details: Hand out paper for the students to draw what the inside of the bean looks like and can label the parts of the inside of the seed.

Give each student a dried lima bean. Discuss with them what it feels like and how it looks.

Students can draw the picture of the dried bean on their paper and the teacher can draw it on the board as well.

Pass out soaked beans on napkins. Make sure they do not mess with the bean before the teacher says.

Discuss with them how the soaked lima bean feels like and looks like.

Ask the students to split the soaked bean on their own as you demonstrate it. Some students may need your assistance.

Discuss what the inside of the bean looks like. Draw a sample on the board labeling the different parts of the bean (Embryo, seed coat, and stored food).

Students can draw a picture of the soaked bean on their paper.

Explain to the students the names and the functions of the parts that they may see in their split beans.

Embryo (tiny plant)- developing plant, Seed coat- protects the developing plant, stored food- food for the developing plant.

Materials Needed (Type and Quantity):

Dry large lima beans

Large lima beans soaked overnight

Paper

Notes and Tips (suggested changes, alternative methods, cautions):

Make sure the students do not mess with the lima beans until you say to do so. First, take off the seed coat and show them what it looks like so that they can carefully take theirs off to make it look like yours. Then open up the seed vertically so that it splits the seed in half. Make sure to bring extra soaked beans just in case some students' lima bean does not split right, so that they can see the embryo (tiny plant).

Sources/References:

- 1) Student science book as a guideline**
- 2) Worksheets in science workbook**
- 3)**