

**Project FOCUS
Best Lessons
THIRD GRADE**

Title of Lesson: Bean Plants

Theme: Earth Science

Unit Number: 4 **Unit Title:** Rocks, Minerals, Soils, and Fossils

Performance Standard(s) Covered (enter codes):

S3E1

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):

Soil
Plants
Photosynthesis
Hypothesis
Procedure
Conclusion
Constants
Variables

Learning Activity (Description in Steps)

Abstract (limit 100 characters):

Details: This experiment requires you to split the room into groups. Start by explaining the definition of terms above. The experiment is to test how different soils affect the growth of bean plants. Have the groups come up with a hypothesis, purpose, and procedure. Then bring everyone together and pot the plants. Label them and measure their height as well as describe their appearance. Continue measuring the plants every couple days. Make sure to explain the soil is the variable and water, sunlight, type of plant are the constants. Have the groups state a final conclusion and make a poster on the experiment including all of the info.

Materials Needed (Type and Quantity):

Two Bean Plants
Pot of Clay
Pot of potting Soil
Water
Sunlight

**Measuring Stick
Poster Board**

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

Setting it up like a science fair project will allow them to be prepared for the projects that they have to make at the end of the year. Find a place to put the plants where the children can check on them regularly. Make sure you have a place to pot the plants with the children.

Sources/References:

- 1)
- 2)
- 3)