**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):**
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
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)