



## Life of a Lima Bean

### Science classes grades 1-2

Overview	The purpose of this activity is to teach the students how to make observations, predictions, and conclusions. They will record all of these things through Penzu.
Objectives	After reading chapter 3 in their science book, students will be able to make predictions, observations, and conclusions about their lima bean plant.
Standards	<p>Scientific Thinking</p> <p>1.2 – Students begin to find answers to their questions about the world by using measurements, estimation, and observation as well as working with materials. They communicate with others through numbers, and drawing.</p> <p>Common Themes</p> <p>2.6 – Students begin to observe how objects are similar and how they are different. They begin to identify parts of an object and recognize how these parts interact with the whole. They look for what changes and what does not change and make comparisons.</p>
Materials	<ul style="list-style-type: none"><li>• Lima beans</li><li>• Paper towels</li><li>• Ziploc bags</li><li>• Water</li><li>• Computer access</li><li>• Penzu login</li></ul>

## Procedure

1. Before starting the activity, the students should know what a prediction, observation, and conclusion is scientifically.
2. Then the students should be taught what the parts of a lima bean are.
3. Show a graph of a lima bean.
4. Discuss with your students what the elements that make a plant grow are.
  - Air, water, and food.
5. Next, hand out a paper towel and have each student damp the towel with water.
6. After the students have dampened their paper towel, hand out 1 lima bean to each student.
7. The student can then place the lima bean on the damp paper towel and put it in a Ziploc bag with their name clearly written on the bag.
8. Hang the Ziploc bags, containing the lima bean in the damp paper towel, somewhere where sunlight will reach them.
9. Next each student needs to log in to Penzu.
  - On a new Penzu page, have your students title it "Predictions"
  - Then each student will spend sometime making predictions on what will happen with their lima bean. They will include what they know about what makes a plant grow.
  - Once they are done making their predictions on Penzu, have them log out.
10. For the next two weeks your students will be make observations on their lima bean.
  - Each student will log in to Penzu and create a new page titled "Observations"
  - Using Penzu, they will record a daily observation of what their lima bean looks like, how tall it is, and more.
  - Each observation entry should include the date and time.
11. After two weeks are done, each student will make their final observation and make a conclusion.
12. They will record these conclusions through their Penzu account.
  - Each student will title a new page "Conclusion"
  - Their conclusion should be a paragraph.
13. At the end of the activity each student will share their Penzu entries with the teacher using the sharing tool on Penzu.
14. Their grade will come from if they have all the parts on Penzu
  - The student's "Prediction" page is there.
  - The student's "Observations" for 9 days are there.
  - The student's final Observation as well as their "Conclusion" is there.
15. At the end of the 2 weeks, have the children take their lima bean plants home.

## Evaluation

After this activity, your students will be able to make a scientific prediction, observations, and conclusion. Also they will know what makes a plant grow.