Andie Kantor Bender

Elib 530a

Dr. Bindman

Lesson Plan

Information Literacy Standard

1.1 Follow an inquiry-based process in seeking knowledge in curricular subjects and make the real-world connection for using this process in their own life.

1.2.2 Organize knowledge so that it is useful.

3.1.6 Use writing and speaking skills to communicate new understandings effectively.

Curriculum Content Standard

Grade 1 Life Science

2. Plants and animals meet their needs in different ways. As a basis for understanding this concept:

a. Students know different plants and animals inhabit different kinds of environments and have external features that help them thrive in different kinds of places.

b. Students know both plants and animals need water, animals need food, and plants need light.

c. Students know animals eat plants or other animals for food and may also use plants or even other animals for shelter and nesting.

d. Students know how to infer what animals eat from the shapes of their teeth (e.g., sharp teeth: eats meat; flat teeth: eats plants).

e. Students know roots are associated with the intake of water and soil nutrients and green leaves are associated with making food from sunlight.

Lesson Objective

Students will learn how to grow a bean plant. Students will learn that plants need water, air, and sunlight to survive. Children will continue to develop their science skills including prediction and observation.

Instructional Content/Learning Activity

*Materials*

Dried lima beans (soaked overnight)

Paper towels

Plastic cup with each student’s name printed on the side

Pitchers of water

Day 1

1. TL reads *Jack and the Beanstalk* to the class.
2. TL shows class a lima bean and passes it around so that they can touch it. TL asks them what they know about lima beans. Teacher charts their answers on a KWL chart.
3. TL asks class what they want to know about lima beans. Teacher charts their answers on KWL chart.
4. Review KWL chart.
5. Teacher says, “we are going to each grow a lima beans and see if they turn into a beanstalk, like Jack’s.” …and refer to other things on the KWL chart. “Everyone is going to grow three beans. We have to take care of them carefully.” Etc.
6. Teacher and TL pass out three beans, a paper towel, and clear plastic cups to each student.
7. Teacher and TL demonstrate how to “plant” the beans by placing in damp paper towel. Teacher says, “now you can try.”
8. Teacher and TL wander around room with pitchers and help students dampen the paper towels before placing bean inside.

Days 2 – 6

Students water their beans in class

Day 7

1. TL reads *One Bean* to students and asks them if they agree with what the books says happens to lima beans as they sprout. Asks if they have other observations to share.
2. TL reviews KWL chart and asks students to make any changes. TL asks students to add to the Learn column.
3. TL explains assignment and demonstrates an example of completed lima bean worksheet.
4. Students draw four pictures and write one sentence about different stages of lima bean plant growth.
5. Students take home lima bean plant

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|  Grade LevelGrade 1Time Frame2 weeks, although the TL only joins the class for two days. This can be modified depending how TL’s schedule and how the lima beans grow. |

Evaluation

Students will draw four pictures of their bean in different stages of growth and write 1 sentence for each picture.

Collaboration Strategy

TL and teacher will meet to plan lesson, find charts, and make copies. TL and teacher will co-teach entire lesson. TL and teacher will both correct all evaluations.

Annotated Bibliography

"Beans - Lima Beans - Growing Lima Beans - How to Grow Lima Beans - Growing Lima Beans." *Gardening - Complete Garden Planting and Growing Guide*. USA Gardener International Gardening Guide. Web. 30 Nov. 2011. <http://usagardener.com/how\_to\_grow\_vegetables/how\_to\_grow\_lima\_beans.php>.The USA Gardener website has an incredible amount of information regarding growing plants. There are even free gardening e-Books. This page in particular shows how to grow lima beans. Website

 Butterworth, Nick, and Mick Inkpen. Jasper's Beanstalk. New York: Bradbury, 1993. Print. This picture book is about an adorable cat named Jasper, and the bean plant that he took very good care of for one week and then threw away. A great supplemental story for this lesson. Ages 3-6. Book

Ehlert, Lois. Planting a Rainbow. San Diego: Harcourt Brace Jovanovich, 1988. Print. This is a wonderful, colorful nonfiction book for furthering the interest of future gardeners. Ages 3 - 7. Book

Granowsky, Alvin, Henry Buerchkholtz, Linda Dockey Graves, and Alvin Granowsky. Giants Have Feelings, Too. Austin, TX: Steck-Vaughn, 1996. Print. This story of Jack and the Beanstalk is told from the giant's point of view. On the flip side of this book is the traditional tale. Very cute. Ages 5 - 8. Book

Kellog, Steven. Jack and the Beanstalk. New York: Harper Collins, 1997. Print. This adorable version of Jack and the Beanstalk tells the story of Jack and how he got the magic beans and tricked the ogre out of his magical harp and chicken. A great intro for growing a magic beanstalk! Book

Kuchalla, Susan, and Jane McBee. All about Seeds. Mahwah, NJ: Troll Associates, 1982. Print. This science book tells students all about seeds and how they grow. Ages 4 - 7. Book

Medearis, Angela Shelf, and Jill Dubin. Seeds Grow! New York: Scholastic, 1999. Print. This rhyming book shows the process of seeds growing. Ages 3 - 6. Book

Rockwell, Anne F., and Megan Halsey. One Bean. New York: Walker and, 1998. Print. This nonfiction book details the life of a lima bean and what happens when one is planted. Ages 3 - 8. Book

Yaccarino, Dan, and Adam McCauley. The Lima Bean Monster. New York: Walker &, 2001. Print. This adorable picture book tells a great story of a kid who doesn't like lima beans. A great additional story for this lesson. Ages 4- 8. Book

Yolanda, VanVeen. "Gardening: Edible Plants : How to Grow Lima Beans." YouTube - Broadcast Yourself. EHow Gardner, 19 Feb. 2009. Web. 30 Nov. 2011. <http://www.youtube.com/watch?v=jZXW1KzR804>.This short video documents how to grow lima beans. Yolanda VanVeen gives tips on how to grow and harvest lima beans. Video.

Works Cited

<http://teacher.scholastic.com/lessonrepro/lessonplans/ect/magicbeans.htm>

<http://www.forestinfo.org/teachers/lesson_plans/finished_plans/SeedsWhatisInside.pdf>

Lima Beans

Draw a picture of lima beans at different stages of growth in each of the boxes below.

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Lima Beans

Write one sentence about each of the boxes on the back of this sheet.