

Rose Bay  
Algebra Lesson Plans  
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Day One

September 11, 1998

Safety and Orientation

Maintenance

- a. Clean up trash
- b. Clear trails

Lunch

Activity 1: **Estimation**

1. **TREE COUNT**

- a. Take students to dock. Have them "eyeball" a group of trees across Spruce Creek and estimate the number of trees in that section.
- b. Devise a method to estimate the number of trees along the shoreline using the original "count."
- c. Break students into groups and have them do the actual estimation.
- d. Compare the results. Give pros and cons of using the estimation method. Discuss real-world applications of this method.

2. **PLANK COUNT**

- a. Using the estimation methods devised in #1, have students estimate the number of planks needed to construct the dock.
- b. Break students into 2 groups. One group will continue with the estimation, the other will make an actual count of the planks used.
- c. Have the groups compare their results. Allow time for discussion of usefulness and accuracy of estimation.

*Sunshine State Standards:*

- MA.A.4.4.1 The student uses estimation strategies in complex situations to predict results and to check the reasonableness of results.
- MA.B.3.4.1 The student estimates measurement in real-world problem situations.
- MA.E.3.4.1 The student designs and performs real-world statistical experiments that involve more than one variable, then analyzes results and reports findings.
- MA.E.3.4.2 The student explains the limitations of using statistical techniques and data in making inferences and valid arguments.

Activity 2: **Reflection**

1. Review safety and orientation
2. Discuss behavior
3. Why clean up and clear trails?
4. Critique of Activity 1
5. Requests for next trip