

DOINGWHATWORKS



SAMPLE MATERIAL

Science and Math Read-Aloud Lesson Plans

Carl Von Linné Elementary School, Illinois

Topic: Improve K-3 Reading Comprehension

Practice: Engage Students With Text

Christine Carriere, first- and second-grade teacher at Carl von Linné Elementary School, uses read-alouds across the curriculum to engage her students in texts. Included here are read-aloud lesson plans for a science lesson on trees and a math lesson on sorting.

Science Lesson Plan, 1st and 2nd Grade
Carriere, 11.2010

Objective: Students will understand that scientists record and communicate information.

Illinois state learning goals: State goal 11, Understand the processes of scientific inquiry and technological design to investigate questions, conduct experiments and solve problems. 11.A.2c, Construct charts and visualizations to display data.

Materials: *Tell Me, Tree: All About Trees for Kids* by Gail Gibbons, Scholastic, New York, 2002; paper, crayons, colored pencils.

Activities:

1. Teacher will begin discussion by reminding students that we have been learning about being scientists and doing what scientists do. One thing that scientist do is record and communicate important information. We have also been talking and learning about the autumn season, which is coming to an end. We know that one way we can tell that the seasons are changing is by watching the trees. On our KWL chart we asked some questions about the trees and leaves in the fall. Let's see what we can learn about trees from reading this non-fiction book. We can also see what questions we might still have after we finish this book.
2. Teacher reads the *Tell Me, Tree* book aloud, stopping to discuss various parts of the book.
3. The teacher presents the student activity. Now you will have a chance to be a scientist. You are going to make your tree information chart. You can draw and write important information about trees on your paper. Before we begin, let's discuss what words you might need to know and use and what you think should go on your chart.

Outcomes and assessment: The teacher will conduct an informal observational assessment of students during the course of the lesson. The teacher will observe if students are engaged in the read aloud and participating in the book discussion. The teacher will conduct a formal assessment of the learning by examining the in-class student product, individual tree information charts.

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Math Lesson Plan, 2nd Grade
Carriere, 11.2010

Math Trailblazers: A TIMS Curriculum
Unit 3: Buttons: A Baseline Assessment Unit
Lesson 3: Button Sizer

Objective: Students will understand how to collect, organize, and present quantitative data.

Common Core Learning Standards: 2.MD.10; Measurement and data; Represent and interpret data; Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in the bar graph.

Materials: *The Button Box* by Margarette S. Reid, Puffin Books, New York, 1995;
Buttons; plastic bags; Student books

Activities:

1. Teacher read aloud and student discussion of the book *The Button Box*.
2. Students sort buttons; measure the size of buttons, record collected data in a table and on a bar graph. (Students may work in partners or small groups to complete this activity.)
3. Students complete simple problems using the information presented in the table and on the bar graph. (Students may work in partners or small groups to complete this activity.)

Outcomes and assessment: The teacher will conduct an informal observational assessment of students during the course of the lesson. The teacher will observe if students are engaged in the read aloud and participating in the book discussion. The teacher will also observe if the students can collect, sort and represent data. The teacher will conduct a formal assessment of the students' learning by examining the student lesson product, a completed data table and bar graph.