

MathStar Research Lesson Plan

Grade Level: 3rd

Instructor: Angela Hunter

Class Time: 9:45 am

Location:

Des Moines Elementary
3rd Grade Room

Date: 04/17/02

of Students: 6

Class Type (check one):

Regular SPED Bilingual/ESL Other

Comments: (*Describe social/ cultural context of school*)

Des Moines is a small, rural community with low cultural diversity. There are approximately 140 students K-12.

I. Description of Unit: (*1 to 2 sentences*)

This unit focuses on using student made manipulatives to explore the concept of measurement. The students will learn how to use a homemade ruler to measure to the nearest inch and $\frac{1}{2}$ inch.

A. How does this lesson fit into the unit?

- **Previously learned concepts** (*What concepts are needed to do this lesson?*)
 - Measuring shapes using pattern blocks
 - Counting by $\frac{1}{2}$'s
- **Concepts to be learned in this lesson**
 - Using estimation to measure
 - Measuring to an inch
 - Measuring to a $\frac{1}{2}$ inch
 - Rounding to the nearest inch and $\frac{1}{2}$ inch
 - Two halves equal a whole
- **Concepts to be used in future lessons**
 - Dividing into equal parts
 - Applying the measuring process to everyday life

B. Instructional sequence for unit (*Where does this unit fit in the curriculum for the year?*)

- Estimating Length to the nearest inch
- Measuring and Drawing Line Segments to the Nearest Inch
- Dividing into two, four, and eight equal parts
- Finding Perimeter
- Drawing and Measuring Line Segments to the nearest half inch
- Writing a Part of a Set as a Fraction

II. Plan of the research lesson

A. Goals of the research lesson: (*What do you want your students to learn in this research lesson?*)

Students will use manipulatives to measure different length to nearest half inch. Students will use what they have learned about measurement to create their own ruler. Students will understand that two halves equal a whole.

B. How does the lesson fit into the overarching lesson study goal?

(*Example of overarching lesson study goal: Students will be confident in their ability to learn.*)

Students will use self created materials to measure different objects, allowing them to feel more confident about using a ruler to measure to the nearest inch and $\frac{1}{2}$ inch. Students will transfer fraction understanding and be able to apply to measurement.

C. Steps of the research lesson: (*See attached table*)

D. Things to prepare/materials:

Cardstock Paper to make rulers- 2X12 with inch lines drawn (**REMOVE STUDENT RULERS prior to lesson**)

Inch Worm Manipulatives

Pencil

Twizzler candy

Inch by Inch by Leo Lionni

Student Reporting Form