

Measurement

Estimated Time: 45 minutes

Grade Level: Second Grade

Lesson Objective:

Learn how to make measurements using the metric system of measurement.

Content Standards:

Create and solve word problems originating from real-life situations.

Demonstrate an understanding of spatial relationships.

Select appropriate units of measurement.

Estimate and measure length using appropriate units.

Materials Needed:

- Pencil
- Crayons
- Yarn
- Metric ruler
- Tape measure
- Different size objects
- Worksheets
- Internet
- Computers

Pre-instructional Techniques:

- ❑ Statement of Review: “We have talked about estimating how many jelly beans are in a jar. Can anyone tell me about what you do to make an estimation?”
- ❑ Statement of today’s Objective in Student’s language: “Today we are going to learn how to take measurements using a metric ruler. We use measurements in everyday life. The doctor keeps up with how long we are and farmer’s keep up with how large their crop gets from year to year.”
- ❑ Motivation Technique: The teacher will begin by showing students how to make measurements using objects around them. Using their feet, palms, and fingers. Bigger than bread box, smaller than a breadbox etc.

Instructional Procedures/Strategies:

- ❑ Direct Teaching: Show the students how to measure objects with the metric ruler. Show the students how to begin at the 0 and look at the number the last number that the object lines up with.

- ❑ Guided Practice: Show students using objects and worksheet to help students start realizing the differences in sizes. This will help in the process of learning that metric measurements are somewhat smaller than standard measurement.
- ❑ Independent Practice: Separate the children into their table groups to start working on their group measurement pages. The students will begin by measuring distance around the room and school. First they will use innate objects to show differences. From here they will use a metric tape measure to measure the objects around the room and school.
- ❑ Correction and Extension Activities: The children will be able to work on the Internet using map quest to learn about measuring distances for trip planning.

Formative Evaluation:

Students will be evaluated on completion of worksheets and group work.

Interdisciplinary Emphasis:

- For gifted children: The gifted child will be able to make exact measurements using the ruler (using halves and tenths). The gifted student will also be able to do large addition math (two and three column addition).
- For the children with disabilities: Repetition of measuring and changing measuring activities will help reinforce the measuring concept. Also this activity helps in counting, colors, reading, and socializing skills.
- For the language barrier: For the children who have trouble cannot speak English, working with other children will help develop their English.
- For the transfer student: Social interaction will help the student feel more at home.

Bibliography:

www.lessonplans.com

www.mapquest.com

www.askeric.com

Measurement workbook grades 1-3

Math Concepts for Second Grade

ECE Block Materials

Brookville Elementary School Resources and Guide.