

**Title: Measurement: Using a Ruler to Measure Sea Creatures to the Nearest Eighth Inch**

**Brief Overview:**

In this lesson students will acquire the skills necessary to understand the markings on a ruler and use it to measure objects to the nearest  $\frac{1}{2}$ ,  $\frac{1}{4}$  and  $\frac{1}{8}$  of an inch. Students will use snap cubes to understand the lengths of ruler markings. Students will also create oversized "incredible inches" to measure objects to the nearest eighth of an inch. Finally, students will measure, cut and paste certain fish into a paper aquarium.

**NCTM Content Standard:**

Measurement  
Representation  
Numbers and Operations

**Grade/Level:**

Grades 4 and 5

**Duration/Length:**

Three lessons, 50-60 minutes per day

**Student Outcomes:**

Students will:

- Identify the markings on a ruler as eighths, fourths and halves.
- Relate ruler marks to equivalent fractions.
- Use a ruler to measure to the nearest  $\frac{1}{2}$ ,  $\frac{1}{4}$ , and  $\frac{1}{8}$  inch in order to determine length of objects.
- Use a ruler to draw straight lines to the nearest  $\frac{1}{2}$ ,  $\frac{1}{4}$ , and  $\frac{1}{8}$  inch.

**Materials and Resources:**

- Snap Cubes
- Blank Copy Paper
- Sea Creature Cut Outs (See TRS#2, TRS#6, TRS#9)
- Overheads (TRS#4, TRS#5)
- Overhead
- Student Resource Sheets #1-9
- Rulers
- 1 Transparent Ruler (for overhead use)
- Scissors