# () Before y you Teach Teacher Guide 

## Our resource has been created for ease of use by both TEACHERS and STUDENTS alike.

## Introduction

Measurement is one of the major skills that students are expected to learn in the elementary grades. The following resource provides students the opportunity to learn, review, and master essential measurement skills. This resource allows students to use, compare, analyze, and assess different units of measurement. Students will reinforce and develop their knowledge of measurement tools, as well as different types of measurement, including: length, width and height; weight; capacity; perimeter; area; angle measurements; time; money

Students will be asked to use standar units of measure as they practice thes skills.

Teachers may use this
 wish. Each sheet may be done inde novently, or in sequence to develop essent $\mathbf{m}$ drement skills that students need to master by the time they have completed fifth grade. The variety of activities will provide ample opportunity for all students to learn these skills.

## How Is Our Resource Organized?

## STUDENT HANDOUTS

Reproducible task sheets and drill sheets make up the majority of our resource.
The task sheets contain challenging problem-solving tasks, many centered around 'real-world' ideas or problems, which push the boundaries of critical thought and demonstrate to students why mathematics is important and applicable in the real world. It is not expected that all activities will be used, but are offered for variety and flexibility in teaching and assessment. Many of the task sheet problems offer space for reflection, and
opportunity for the appropriate use of technology, as encouraged by the NCTM's Principles \& Standards for School Mathematics.
The drill sheets are provided to help students with their procedural proficiency skills, as emphasized by the NCTM's Curriculum Focal Points.

The NCTM Content Standards Assessment Rubric (page 4) is a useful tool for aruating work in many of the activities in our resol The Reviews (pages 24-26) are divided by grade and be for a follow-up review or assessment the comp of of the unit.

Teacher Guide

- Information and tools for the teacher


## Student Handout

- Reproducible worksheets and activities

EZ Easy Marking ${ }^{\text {TM }}$ Answer Key

- Answers for student activities


## EASY MARKING ${ }^{\text {TM }}$ ANSWER KEY

Marking students' worksheets is fast and easy with this Answer Key. Answers are listed in columns - just line up the column with its corresponding worksheet, as shown, and see how every question matches up with its answer!


NAME:


## Task Sheet 4

Solids, liquids, and glass
4) For the following activity, you will need:

## 1 teaspoon

1 tablespoon
1 cup measure
1 pint measure water


You are working for the SLG measurement company. Your in to double check their measurement calculations. To do so, you ne a to determine the measurements by using the tools above.
a) How many teaspoons are in a tablest on?
b) How many tablespoons are in a c
c) How many teaspoons-ve in up
d) How many tabhapoo so in plit?
e) How many easnmans re in á pint?

$\qquad$
$\qquad$
$\qquad$
f) Think about the information above. How can this help you determine how many tablespoons are in a...
i) Quart:
$\qquad$
$\qquad$
ii) Gallon:
$\qquad$
$\qquad$

## Review A

## Measurement Conversions


b) $1 \mathrm{lb}=$ $\qquad$ oz $\quad 32 \mathrm{oz}=$ $\qquad$ Ibs

$\qquad$
$1000 \mathrm{mg}=$ $\qquad$ g

## Liquid Measurement

c) 1 quart $=$ $\qquad$ pints

4 cups $=$

Time
d) 60 seconds =

1 hour =
cups =
$\qquad$ in

24 in = $\qquad$ ft
$2 \mathrm{yd}=$ $\qquad$ ft
$300 \mathrm{~cm}=$ $\qquad$ $m$
$800 \mathrm{~mm}=$ $\qquad$ cm
$2 \mathrm{~m}=$ $\qquad$ cm
$6 \mathrm{ft}=$ $\qquad$ yds
$12 \mathrm{ft}=$ $\qquad$ 36 in = $\qquad$ ft
$4000 \mathrm{mg}=$ $\qquad$

## Measurement All Around

Think about the classroom you are currently in. Suppose you were going to replace the floor. To do this, you would need to know the area of your classroom floor. On your own, or with the help of other classmates, complete the following task.

1. Determine what unit would be best to measure the area. Share your suggestions in class.
2. Determine which tool you will use to find this measurement. Share your suggestions in class.
3. Make an estimate for the classroom gran sore you esti ate in class. Explain how you determined the es nate
4. Create a plan to find the you use these meas
5. Find the a too our area in class.
6. Make a drawing or diagram of your classroom. In this diagram, show the area of your classroom. Label the length and width of each side of the classroom.
7. Compare the area of the classroom with the perimeter of the classroom. How are they similar? How are they different?
8. Up for a challenge? A typical tile used to put on a classroom floor is 9 inches by 9 inches (or 22.5 cm by 22.5 cm). How many tiles would you need to use to cover your entire floor?
