

Teacher Guide

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

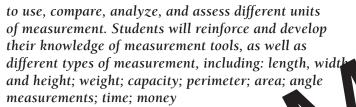
Introduction



easurement 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



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

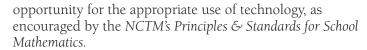
Teachers may use this r anner they wish. Each sheet may be done inde naently, or in sequence to develop essent urement skills that students need to master by the time they have completed fifth grade. The variety of activities will provide ample opportunity for all students to learn these skills.

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



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 a functing work in many of the activities in our resource. The **Reviews** (pages 24-26) are divided by grade and con beauth for a follow-up review be a for a follow-up review or assessment the completion of the unit.

Tree main types of pages, each with ent purpo, and use. A **Picture Cue** at the top of gage shows, at a glance, what the page is for.



Teacher Guide

Information and tools for the teacher



Student Handout

• Reproducible worksheets and activities

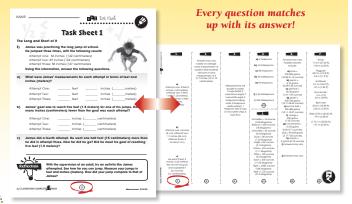


Easy Marking[™] Answer Key

Answers for student activities

EASY MARKING™ 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!







Task Sheet 1

The Long and Short of It

James was practicing the long jump at school. He jumped three times, with the following results:

> Attempt one: 56 inches (142 centimeters) Attempt two: 49 inches (124 centimeters) Attempt three: 58 inches (147 centimeters

Using this information, answer the following questions.



a)	What were James' measurements t	for each	attempt i	in terms	of feet	and
	inches (meters)?					

Attempt One:	feet	inches	meters)
Attempt Two:	feet _ •	'nches (meters)
Attempt Three:	feet	i) (e 8 (meters)

b) James' goal was to reach five set (1) meters) for one of his jumps. How many inches (centimeters) fevel can the goal was each attempt?

Attempt ne:	inches (centimeters)
Attempt Two:	inches (centimeters)
Attempt Three.	inches (centimeters)

c) James did a fourth attempt. He went one half foot (15 centimeters) more than he did in attempt three. How far did he go? Did he meet his goal of reaching five feet (1.5 meters)?



With the supervision of an adult, try an activity like James attempted. See how far you can jump. Measure your jumps in feet and inches (meters). How did your jump compare to that of James?



NAME: _____

Review A

Measurement Conversions

$$300 \text{ cm} = ___ \text{m} \qquad 800 \text{ mm} = __ \text{cm} \qquad 2 \text{ m} = __ \text{cm}$$

Weight

Liquid Measurement

Time

Temperature

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 area. Stare you estimate in class. Explain how you determined the estimate
- 4. Create a plan to find the Va. What will you need to measure? How will you use these measurements it indiche area? Share your ideas in class.
- 5. Find the a sa Stare four 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?