Process Standards Rubric

Measurement

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Expectations Instructional programs from pre- kindergarten through grade 12 should enable all students to:	 build new mathematical knowledge through problem solving; solve problems that arise in mathematics and in other contexts; apply and adapt a variety of appropriate strategies to solve problems; monitor and reflect on the process of mathematical problem solving. 	 recognize reasoning and proof as fundamental aspects of mathematics; make and investigate mathematical conjectures; develop and evaluate mathematical arguments and proofs; select and use various types of reasoning and methods of proof. 	organize and consolidate their mathematical thinking through communication; communicate their mathematical thinking coherently and clearly to peers, teachers, and others; analyze and evaluate the mathematical thinking and strategies of others; ouse the language of mathematics to express mathematical ideas precisely.	recognize and use connections among mathematical ideas; understand how mathematical ideas interconnect and build on one another to produce a coherent whole; recognize and apply mathematics in contexts outside of mathematics.	create and use representations to organize, record, and communicate mathematical ideas; select, apply, and translate among mathematical representations to solve problems; use representations to model and interpret physical, social, and mathematical phenomena.
	GOAL 1: Problem Solving	GOAL 2: Reasoning & Proof	GOAL 3: Communication	Connections	GOAL 5:



Teacher Guide

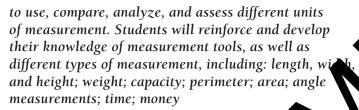
Our resource has been created for ease of use by both **TEACHERS** and **STUDENTS** alike.

Introduction



easurement is one of the major skills that students are expected to learn in

middle school. 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 standard as well as measures of measure as they practice these measurements skills.

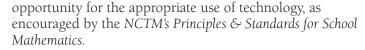
Teachers may use this resource is my man or they wish. Each sheet may be done independently or in sequence to develop essential need teach to skills that students need to master by the time they have completed eighth grade. The variety of activity all provide ample opportunity for all students to learn 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 Curriculur Focal Points*.

The **NCTM** (**Inter**) **Standards Assessment Rubric** (page 4) is a use cool for valuating work in many of the activities in our record the **Reviews** (pages 24-26) are divided by grade and can be used for a follow-up review or assessment at the simpletion of the unit.

PIC URE CUES

its resource contains three main types of pages, each with a lafferent purpose and use. A **Picture Cue** at the top of each page shows, at a glance, what the page is for.



Teacher Guide

• Information and tools for the teacher



Student Handout

• Reproducible worksheets and activities

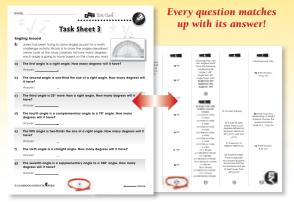


Easy Marking[™] Answer Key

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!

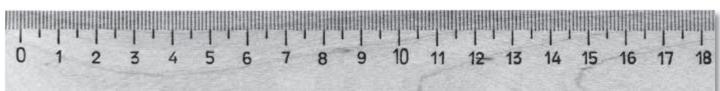






Task Sheet 9

Circle Central



9) For this activity, you will need a compass and a centimeter ruler. Your job is to draw the three circles described below. Then, find the circumference, racus and area of the circle you draw.



a) Circle One: Should have a diameter in cm

Circumference: _____ Area: _____

b) Circle Two:
Should have a diamete of 3 cm.

c) Circle Three:
Should have a diameter of 4 cm.

Circumference:

Radius: _____

Circumference: _____

Radius: ____

Area: ____



Task Sheet 12

Dining In

Janelle works at the Carroll Café, a small restaurant near her school. The following is a partial copy of the lunch menu found at the restaurant. Use the menu to answer the questions below.

CARROL			
> Sandwiches	Sides	Beverages _	THE PERSON NAMED IN COLUMN 1
Vegetarian Pocket\$4.99	Fruit Cup\$3.99	Soft Drinks	
Meatball Sub \$4.99	Salad\$3.99	Small \$1.00	A SO
Cold Cut Sub\$5.99	Breadsticks \$4.99	Medium\$ J	
Chicken Cutlet \$7.99	Potato Skins \$5.99	Lerge \$2.00	
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- a) Janelle's first customer ordered a freatball sub, a fruit cup, and a medium soft drink. What was the customer's talk! before tax?
- b) One item on the menu is approximately 1/8 the cost of another item. Name both items.
- c) Janelle's second curve ordered a sandwich, a side, and a beverage totaling \$15.98 before tax. What three items did the customer order?
- d) If a customer ordered a small soft drink, a salad, and a cold cut sub, and there was a 5 percent meal tax on the total, how much would the customer spend in total on the meal?



Find out the local meal tax in your location. Write the tax rate below. How does it compare to the rate charged at the Carroll Café?