Process Standards Rubric

Geometry

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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; use 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	GOAL 4: Connections	GOAL 5: Representation



Teacher Guide

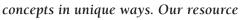
Our resource has been created for ease of use by both **TEACHERS** and **STUDENTS** alike.

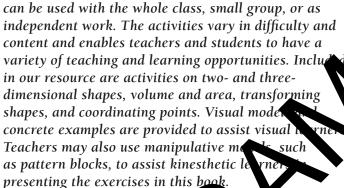
Introduction



ur resource provides ready-to-use worksheet activities for students in third through fifth

grade. Our resource meets the geometry concepts addressed by the NCTM and encourages the students to learn and review the





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 cool for evaluating work in many of the activities in our esource. The **Reviews** (*pages 24-26*) are divided by go at and can be used for a follow-up review or assessment at the ampletion of the unit.

PICTURE CUES

This rest rece cont ins three main types of pages, each with a dint tent purpose and use. A **Picture Cue** at the top of each age 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

How Is Our Resource O ganized?

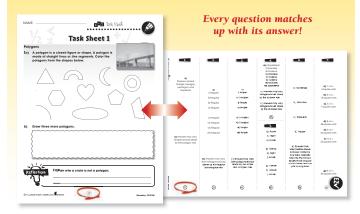
STUDENT HANDOUTS

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*.

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!



NAME: _____

Task Sheet 6

Quadrilaterals

A quadrilateral is any four-sided shape. The angles of a quadrilateral always have a sum of 360 degrees.



Match each definition to its shape.

- a) A four-sided polygon having all right angles.
- b) A four-sided polygon with two pairs of parallel sides.
- c) A four-sided polygon with on pair of opposite parallel side
- d) A four-sided polygon with a sides of equal leng hand all angles 90 degrees

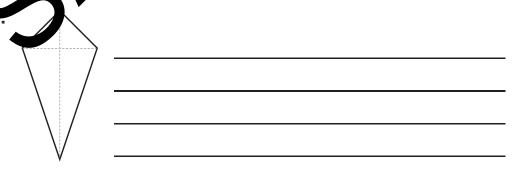
Square

Rhombus

Rectangle

Trapezoid

e) This shape is a kite Write a definition for this shape.



Explore With Technology

With the help of an adult, use the Internet, find pictures, drawings, and names of other quadrilaterals.

Which quadrilateral is your favorite?





Task Sheet 15

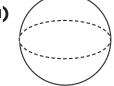
Types of Faces

15) The sides of a geometric solid are called faces.

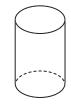
List the faces shown on each geometric solid.



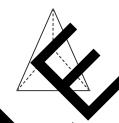




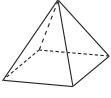
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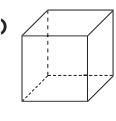
c)



d)



e)

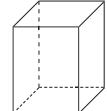


f)





h)



Read each description. Write the name of its matching solid shape.

- i) I have two faces that are circles.
- All six of my faces are squares. j)
- **k**) I have four triangular faces.
- I have no flat faces. I)
- I have one circular face. m)
- I have four triangular faces and one square face. n)





