# **Process Standards Rubric**

### Measurement

	<b>Expectations</b> Instructional programs from pre- kindergarten through grade 12 should enable all students to:	-	5	m	4	20		<b>N N</b>	cis 9	10	E E	12	13	14	15	Drill Sheet 1	Drill Sheet 2	A wsivsA	Beview B	Seview C
Problem Solving COAL 1:	<ul> <li>build new mathematical knowledge through problem solving;</li> <li>solve problems that arise in mathematics and in other contexts;</li> <li>apply and adapt a variety of appropriate strategies to solve problems;</li> <li>monitor and reflect on the process of mathematical problem solving.</li> </ul>							2 2 2 2 2		555	> >	>>>	>>>>	> > >	<u>&gt; &gt;</u>	>>>	>>>	>>>>	>>>>	<u>&gt;&gt;&gt;&gt;</u>
GOAL 2: Reasoning & Proof	<ul> <li>recognize reasoning and proof as fundamental aspects of mathematics;</li> <li>make and investigate mathematical conjectures;</li> <li>develop and evaluate mathematical arguments and proofs;</li> <li>select and use various types of reasoning and methods of proof.</li> </ul>	>						> > >	> > >		>	>>	> >> >	> >	> >	>>>>	>>>>	> >> >	> >> >	> >> >
GOAL 3: Communication	<ul> <li>organize and consolidate their mathematical thinking through communication;</li> <li>communicate their mathematical thinking coherently and clearly to peers, teachers, and others;</li> <li>analyze and evaluate the mathematical thinking and strategies of others;</li> <li>use the language of mathematics to express mathematical ideas precisely.</li> </ul>	>> >	>>>>>								> > >>	7777	>>>>>	>> >	>> >	>>>>>	>>>>>	>> >		<u> </u>
Connections GOAL 4:	<ul> <li>recognize and use connections among mathematical ideas;</li> <li>understand how mathematical ideas interconnect and build on one another to produce a coherent whole;</li> <li>recognize and apply mathematics in contexts outside of mathematics.</li> </ul>	>>>	>>>			, ,	>					N N		>	> >	>>	>>	>>	>>	> >
Representation GOAL 5:	<ul> <li>create and use representations to organize, record, and communicate mathematical ideas;</li> <li>select, apply, and translate among mathematical representations to solve problems;</li> <li>use representations to model and interpret physical, social, and mathematical phenomena.</li> </ul>	>	>>			• • •			> >		> >	>	>>	>	>	> > >	>>>	> > >	> > >	>>>

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NAME:

## Task Sheet 13

+ 2 Task Sheet

#### **The Secret Formula**



Think about the area of the figures determined by formula two and four. If you did not have a formula for these figures, how could formula one and the figure it represents help you determine the area of these two figures?

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Reflection

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*		•	Dr	ill Sł	nee	1		
Con	versions							
a)	1.5 m =	с	m 27	ft =		yards	180 in =	ft
	2.5 oz =	lb	os 2.5	ōg= .		mg	.25 ton =	lbs
	4 cups =	р	ints 33	0 L =		kL	2 gallons =	quarts
	18 ft =	Ye	ds 2.8	5 km =		m	27 yd =	in

#### **Area and Perimeter**

Look carefully at the three figures below. Calculate the area and perimeter using the measurements provided.





### **Draw it to Scale**

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You have been hired by the Scholastic Architectural Firm to design a new classroom. Your job is to draw the design of your state-of-the-art classroom, complete with tools that you think will be useful for students in your class or grade. For this, you are asked to do the following:



