NCTM Process Standards Rubric

Measurement – Drill Sheets

Review C	>>>	>>>>		>>	> > >
Beview B	>>>	>>>>		>>	> > >
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II Ilined Drill II	>>>>	>>>>	>>>>	>>	> >
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Timed Drill 5 🔁	>>>>	> >>			>
Warm-up 3 💆	>>>>	> > >		5 5	> > >
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Timed Drill 3	>>>		> > > >	>>	> > >
Varm-up 2			>> >	>>>>	> > >
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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	Connections 60AL 4:	GOAL 5: Representation

Measurement CCP3215-3

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9a) Listed below in the first column are the formulas that are used to determine the area, surface area, or perimeter of different shapes. Write the shape that each formula represents in the second column. Then, using a ruler, draw a sample of each shape using inches or centimeters. Determine the area or perimeter for each shape you draw.

Timed Drill Sheet # 6

Formula	Shape it may represent	Sample Shape	Area	Perimeter
Ex: P = 4 side	Square		$\mathbf{A} = \mathbf{S}^2$	P = 4 (0.8 in/2 cm)
			$A = (0.8 in/2 cm)^2$	P = 3.2 in/8 cm
			A = 0.64 sq. in/ 4 sq. cm	
i) A = ½ b x h				
ii) P = 3s			0 レ	
iii) A = I x w	1			
iv) P = 5s	St			
v) A = π r ²				
vi) P = 21 + 2w				
vii) $A = s^2$				
viii) P = 6s				
ix) $A = 6a^2$				



NAME:		Rev	Review Sheet			
		Review	B		X	
a) Convert the folic i) 2.57 cm =	-	neasurements. ii) 4.5 ft =	in	iii) 12.5 gal =	cups	
		v) 24 oz =				
vii) 138 in =	_ft	viii) 175 mm =	cm	ix) 30 qt =	gallons	
x) 19.27 mg =	g	xi) 28.5 oz =	Ibs	xii) 29.25 kg =	g	
xiii) 22.5 ft =	in	xiv) 0.025 kL =	L	xv) 2.5 tons =	OZ	
i) Carlos measured the in Celsius?	e tempe n has a	uick measurement qu erature on a cold winter perimeter of 12 inche	day at -	3°F, what was the ter		
iii) Dionne weighed h How many ounces		nd determined size wits) did she viteight	85.25 pc	ounds (38.67 kilogran	ns).	
iv) Wan took a car trip arriving at their re- they traveled evel	stinatio	ii, far ily. They haveled a n 11 ⁴⁴ - readays. What	close to 1 was the	58.5 miles (255 km) l average amount o	before f miles (km)	
v) A box has a length (7 cm). What is the		ches (8 cm), width of 2 in of the box?	nches (5	cm), and a height o	of 2.5 inches	
c) Use a ruler to me for each object.	easure	the objects below. Fin	id the p	erimeter or circum	ference	
i)		ii)			7	

Circumference = ____ Perimeter = _

10

Perimeter = _____

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Obtain a box or other rectangular prism. Working alone or in a small group, devise a plan to determine the surface area of the box without measuring any of the sides.

Then, do the following.

- **1.** Explain your plan.
- 2. Test your plan. Did it work? _
- 3. Take measurements of your box. Make the to identify the plan measurements needed for your box.
- 4. Calculate the surface area of the by x.___
- 5. Compare the surface are it, bu determ is ed by your calculations to the surface area you determined to sing your tan.
- 6. Write your finding an a vel prganized paragraph.

 Draw a diagram of your box. Label all of the essential measurements you took to determine the surface area.

