KPBSD MATH CURRICULUM 2ND GRADE Year at a Glance

This document provides a birds-eye view of the Second Grade math "curriculum map." Please note, some standards are partially taught in early units and re-visited throughout the year. For complete understanding of content to be taught, please visit the Second Grade "curriculum map."

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9
Title	Building a Mathematical Community - Adding and Subtracting within 20	Adding and Subtracting within 100	Skip Counting in Multiple Contexts	Understanding Place Value to Read, Write, and Compare Numbers	Adding and Subtracting within 1,000	Linear Measurement	Data & Two- Step Problem- Solving	Problem- Solving with Money	Reasoning with Shapes
Duration	3-4 weeks	5-6 weeks	1-2 weeks	4-5 weeks	4-5 weeks	2-3 weeks	1-2 weeks	1-2 weeks	2-3 weeks
Content Standards	2.OA.2 2.OA.3 2.MD.6	2.OA.1 2.NBT.2 2.NBT.8 2.NBT.5 2.NBT.6 2.NBT.9 2.MD.6	2.OA.4 2.NBT.2 2.MD.7 2.OA.5	2.NBT.1 2.NBT.2 2.NBT.3 2.NBT.4 2.NBT.9	2.OA.1 2.NBT.2 2.NBT.7 2.NBT.8 2.NBT.6 2.NBT.9	2.MD.3 2.MD.4 2.MD.5 2.MD.1 2.MD.2 2.MD.6	2.MD.9 2.OA.1 2.MD.10	2.MD.8 2.OA.1	2.G.1 2.G.2 2.G.3
Practice Standards									

UNIT 1 - BUILDING A MATHEMATICAL COMMUNITY - ADDING AND SUBTRACTING WITHIN 20

Desired Results

Priority Standards Transfer 2.OA.2. Fluently add and subtract using Students will be able to independently use their learning to ... numbers up to 20 using mental strategies. Build a community of mathematical problem solvers and develop conceptual understanding of addition and Know from memory all sums of two one-digit subtraction. numbers. Meaning Supporting Standards ENDURING UNDERSTANDINGS **ESSENTIAL QUESTIONS 2.OA.3.** Determine whether a group of Students will keep considering... Students will understand that... objects (up to 20) is odd or even (e.g., by • How can I contribute to a positive and respectful Being a member of a positive classroom pairing objects and comparing, counting by community boosts memory, promotes deeper math community? 2s). Model an even number as two equal reasoning, fosters language development and • How can I add and subtract to twenty using groups of objects and then write an equation supports the development of social skills. mental math strategies? as a sum of two equal addends. There are many strategies to assist with problem • How do I determine if a number is odd or even ٠ **2.MD.6.** Represent whole numbers as solving and mental computation. and demonstrate it? lengths from 0 on a number line diagram • Mental strategies are more efficient than with equally spaced points corresponding to the numbers 0, 1,2, ..., and represent wholecounting. • When using a number line the distance between number sums and differences within 100 on the numbers is what is being "counted" a number line diagram. (iteration) rather than counting the tick marks. Acquisition Students will know... Students will be skilled at... That fluency is flexible, efficient, and accurate • I can fluently add and subtract numbers up to 20 • thinking using multiple strategies. using mental math strategies. Even numbers can be shared fairly into two • I can write an equation express an even number equal groups. as a sum of two equal addends. • Odd numbers will have one left over when I can demonstrate partitioning in relation to sharing the number into two equal groups. length. A number line diagram represents whole • I can build a number line diagram and represent ٠ numbers as lengths within it. whole numbers as lengths within it. • I can pair objects and then count them by 2's to explore concepts of even and odd.

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UNIT 1 – BUILDING A MATHEMATICAL COMMUNITY – ADDING AND SUBTRACTING WITHIN 20

Evidence		
Vocabulary	Mathematical Practices (Bolded practices are priority for this unit)	
Fact family	 Make sense of problems and persevere in solving them. 	
Doubles	Reason abstractly and quantitatively.	
Left overs	 Construct viable arguments and critique the reasoning of others. 	
Remainder	Model with mathematics.	
• Odd	Use appropriate tools strategically.	
• Even	Attend to precision.	
	Look for and make use of structure.	
	 Look for and express regularity in repeated reasoning. 	

KPBSD MATH CURRICULUM 2nd GRADE UNIT 2 – ADDING AND SUBTRACTING WITHIN 100

Desired Results

Desired Results				
Priority Standards 2.0A.1. Use addition and subtraction strategies to estimate, then solve one- and	Transfer Students will be able to independently use their learning to Solve real-world problems using addition or subtraction.			
 two-step word problems (using numbers up to 100) involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions (e.g., by using objects, drawings, and equations). Record and explain using equation symbols and a symbol for the unknown number to represent the problem. 2.NBT.2. Count up to 1000, skip-count by 5s, 10s, and 100s. 2.NBT.8. Mentally add 10 or 100 to a given number 100-900 and mentally subtract 10 or 100 from a given number. Supporting Standards 2.NBT.5. Fluently add and subtract using 		 ESSENTIAL QUESTIONS Students will keep considering How do I regroup? When do I regroup? What strategies can I use to add and subtract within 100? How are addition and subtraction related? How can estimation be used to check my thinking? 		
numbers up to 100. Use:		isition		
 Strategies based on place value. Properties of operations. And/or the relationship between addition and subtraction. 2.NBT.6. Add up to four two-digit numbers using strategies based on place value and properties of operations. 2.NBT.9. Explain or illustrate the processes of addition or subtraction and their relationship using place value and the properties of operations. 	 Students will know Fact families show relationships between adding and subtracting. Decomposing and composing 10s help solve problems. The properties of different operations. There are a variety of strategies to solve addition and subtraction problems. Place value can be used to solve mental math problems. Estimation can be used to check the reasonableness of an answer. 	 Students will be skilled at I can add and subtract numbers to 100 quickly and accurately. I can add and/or subtract to solve one-step word problems using objects, drawings, and equations. I can add and/or subtract to solve two-step word problems using objects, drawings, and equations. I can add and/or subtract to solve two-step word problems using objects, drawings, and equations. I can model regrouping using manipulatives. I can show how the properties are related. 		

UNIT 2 – ADDING AND SUBTRACTING WITHIN 100

2.MD.6. Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1,2,, and represent whole-number sums and differences within 100 on a number line diagram.	Evidence	 I can add 10 to any number up to 100 in my head without counting. I can subtract 10 from any number within 100 in my head without counting. I can use a number line diagram to represent a sum or difference within 100. I can estimate to check if my answer is reasonable.
Vocabulary	Mathematical Practices (Bolded practices	are priority for this unit)
Skip count	Make sense of problems and persevere in solving	
Repeated pattern	Reason abstractly and quantitatively.	,
Fact families	Construct viable arguments and critique the reas	oning of others.
Place value	 Model with mathematics. 	
Regrouping	 Use appropriate tools strategically. 	
 Properties of operations 	Attend to precision.	
Expanded form	 Look for and make use of structure. 	
 Addition and subtraction strategies 	 Look for and express regularity in repeated reasonable 	oning.
• Fluency		
Add Gubbbest		
Subtract		

KPBSD MATH CURRICULUM 2nd GRADE UNIT 3 – SKIP COUNTING IN MULTIPLE CONTEXTS

Desired Results

	Desired Results				
Priority Standards	Transf	er			
2.OA.4. Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns. Write an	Students will be able to independently use their learning to Recognize patterns and connections in math.				
up to 5 rows and up to 5 columns. Write an equation to express the total as repeated addition (e.g., array of 4 by 5 would be 5 + 5 +	Meaning ENDURING UNDERSTANDINGS ESSENTIAL QUESTIONS				
 5 + 5 = 20). 2.NBT.2. Count up to 1000, skip-count by 5s, 10s, and 100s. 2.MD.7. Tell and write time to the nearest five minutes using a.m. and p.m. from analog and digital clocks. Supporting Standards 2.OA.5. Identify, continue, and label number patterns (e.g., aabb, abab). Describe a rule that determines and continues a sequence or 	 Students will understand that A rectangular array is any arrangement of things in rows and columns. Rectangular arrays (with repeated addition) is a building block for multiplication. Skip counting by 5s and telling time to the nearest five minutes on an analog clock are connected. The pattern created when skip counting helps solve problems more efficiently. 	 Students will keep considering How do I use models to solve problems? How are skip counting and telling time related? How do I describe a rule that determines and continues a number pattern? 			
pattern.	Acquisition				
	 Students will know Equations can be used to express the total as a sum of equal addends modeled with an array. Skip counting by 5's, 10's, and 100's to 1000. How to tell time on both analog and digital clocks to the nearest five minutes. Number patterns are used as a strategy to solve problems. 	 Students will be skilled at I can create a model array using various objects. I can skip count by 5's, 10's, and 100's to 1000. I can tell time (both clocks) to the nearest 5 minutes. I can identify, continue, and label number patterns. 			

UNIT 3 – SKIP COUNTING IN MULTIPLE CONTEXTS

Evidence Vocabulary Mathematical Practices (Bolded practices are priority for this unit) • Make sense of problems and persevere in solving them. • Reason abstractly and quantitatively. Column • Construct viable arguments and critique the reasoning of others. • Skip counting • Model with mathematics. • Use appropriate tools strategically. • Attend to precision. • Minute

• Look for and express regularity in repeated reasoning.

• Look for and make use of structure.

Clock

• Row

• Array

• Hour

- Digital clock
- Analog clock

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UNIT 4 – UNDERSTANDING PLACE VALUE TO READ, WRITE, AND COMPARE NUMBERS

	Desired Results	
 Priority Standards 2.NBT.1. Model and identify place value positions of three digit numbers. Include: a. 100 can be thought of as a bundle of ten tens - called a "hundred". b. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones). 	Students will be able to independently use their learn Use place value to read, write, compare, and order not	-
• • • •	Aca	uisition
 2.NBT.2. Count up to 1000, skip-count by 5s, 10s, and 100s. Supporting Standards 2.NBT.3. Read, write, order up to 1000 using base-ten numerals, number names, and expanded form. 2.NBT.4. Compare two three-digit numbers based on the meanings of the hundreds, tens, and ones digits, using >, =, < symbols to record the results. 2.NBT.9. Explain or illustrate the processes of addition or subtraction and their relationship using place value and the properties of operations. 	 Students will know The highest digit that any place can hold is nine. Concrete materials can represent 100's, 10's, and 1's. Numbers have place value. Numbers can be written in expanded and word form. The meaning of greater than, less than, and equal when comparing numbers. Each digit within a number has an independent value, that when added, creates the number's overall value. Numbers are compared beginning with the highest place value. 	 Students will be skilled at I can identify the ones digit, tens digit, and hundreds digit in a three-digit number. I can identify the value of each digit. I can use manipulatives or a picture to show the ones, tens, and hundreds in a three-digit number. I can compare 3-digit numbers by looking at the hundreds, tens, and ones digits. I can read numbers up to 1,000 in standard form, word, form, and expanded form. I can use the symbols >, <, and = to compare 3-digit numbers.

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UNIT 4 – UNDERSTANDING PLACE VALUE TO READ, WRITE, AND COMPARE NUMBERS

	Evidence
Vocabulary	Mathematical Practices (Bolded practices are priority for this unit)
Place value	 Make sense of problems and persevere in solving them.
Value	Reason abstractly and quantitatively.
• Digit	 Construct viable arguments and critique the reasoning of others.
Ones	Model with mathematics.
• Tens	 Use appropriate tools strategically.
Hundreds	Attend to precision.
Greater than	Look for and make use of structure.
Less than	 Look for and express regularity in repeated reasoning.
Equal to	

KPBSD MATH CURRICULUM 2nd GRADE UNIT 5 – ADDING AND SUBTRACTING WITHIN 1000

	Desired Results		
Priority Standards 2.OA.1. Use addition and subtraction strategies to estimate, then solve one- and two-step word	TransferStudents will be able to independently use their learning toSolve real-world problems using addition or subtraction.		
 problems (using numbers up to 100) involving situations of adding to, taking from, putting together, taking apart and comparing, with unknowns in all positions (e.g., by using objects, drawings and equations). Record and explain using equation symbols and a symbol for the unknown number to represent the problem. 2.NBT.2. Count up to 1000, skip-count by 5s, 10s, and 100s. 2.NBT.7. Add and subtract using numbers up to 1000. Use: Concrete models or drawings and strategies based on place value. Properties of operations. And/or relationship between addition and subtraction. Relate the strategy to a written method and explain the reasoning used. Demonstrate in adding or subtracting three-digit numbers, hundreds and hundreds are added or subtracted, ones and ones are added or subtracted and sometimes it is necessary to compose a ten from ten ones or a hundred from ten tens. 	 ENDURING UNDERSTANDINGS Students will understand that Numbers in the 10s and 100s place values can be composed and decomposed to solve addition and subtraction problems within 1000. There is a relationship between addition and subtraction. (Fact families). A variety of strategies can be used to solve addition and subtraction problems. Regrouping is redistributing place value. Base ten blocks represent place value and place value is how much a number is worth. Vertically-arranged number sentences need to be aligned by place value. Each digit in a three-digit number has a specific place value. The ability to add and subtract by 10 and 100 mentally is essential to efficient problem solving. 	Aning ESSENTIAL QUESTIONS Students will keep considering How do I regroup? What strategies can I use to add and subtract within 1000? How are addition and subtraction related? How can estimation be used to check my thinking?	

UNIT 5 – ADDING AND SUBTRACTING WITHIN 1000

2.NBT.8. Mentally add 10 or 100 to a given	Acqui	isition
number 100-900 and mentally subtract 10 or 100 from a given number. Supporting Standards 2.NBT.6. Add up to four two-digit numbers using strategies based on place value and properties of operations. 2.NBT.9. Explain or illustrate the processes of addition or subtraction and their relationship using place value and the properties of operations.	 Students will know Fact families show relationships between adding and subtracting. Decomposing and composing 10s and 100s help solve problems. The properties of different operations. There are a variety of strategies to solve addition and subtraction problems. Place value can be used to solve mental math problems (e.g. making groups of 10). Estimation can be used to check the reasonableness of an answer. Inverse operations can be used to solve for an unknown number. Adding and subtracting by 10s and 100s has a predictable pattern that can be found by skip counting. 	 Students will be skilled at I can show the relationship between addition and subtraction properties. I can add and subtract numbers to 1000 in many ways using a strategy, model, or drawing that makes sense to me. I can use place value understanding to regroup when adding or subtracting if I need to. I can record and explain my thinking. I can add up to 4 two-digit numbers using many strategies. I can add 10 or 100 to any number from 100- 900 in my head without counting. I can subtract 10 or 100 from any number from 100-900 in my head without counting. I can show, draw, or explain the strategies I use to solve addition and subtraction problems. I can estimate to check if my answer is reasonable. I can add and/or subtract to solve two-step word problems using objects, drawings, and equations.

UNIT 5 – ADDING AND SUBTRACTING WITHIN 1000

Evidence

<u>Vocabulary</u>	Mathematical Practices (Bolded practices are priority for this unit)
Basic facts	Make sense of problems and persevere in solving them.
Place value	Reason abstractly and quantitatively.
 Properties of operations 	Construct viable arguments and critique the reasoning of others.
Regrouping	Model with mathematics.
Fact families	Use appropriate tools strategically.
Fluently	Attend to precision.
Strategies	Look for and make use of structure.
Expanded form	 Look for and express regularity in repeated reasoning.
• Digit	
• Add	
Concrete	
 Decompose numbers 	
Compose numbers	
Skip count	
Mental math	
Estimate	

KPBSD MATH CURRICULUM 2nd GRADE UNIT 6 – LINEAR MEASUREMENT

Desired Results

Priority Standards Transfer 2.MD.3. Estimate, measure, and draw lengths Students will be able to independently use their learning to ... using whole units of inches, feet, yards, Recognize that objects are measurable and apply that understanding to problem solve. centimeters, and meters. Meaning 2.MD.4. Measure to compare lengths of two objects, expressing the difference in terms of a ENDURING UNDERSTANDINGS **ESSENTIAL QUESTIONS** standard length unit. Students will understand that... Students will keep considering... 2.MD.5. Solve addition and subtraction word • How is measurement used in the real-world? Attributes are measurable. problems using numbers up to 100 involving • Measurement is a process of comparing a unit to • How can I compare measurements? length that are given in the same units (e.g., the object being measured. What makes a reasonable estimate? by using drawings of rulers). Write an Measurement is a consistent duration and Why do I need to be able to estimate a equation with a symbol for the unknown to distance. measurement or value? represent the problem. • The length of objects can be measured using • Why are there standardized units of measure? **Supporting Standards** customary &/or metric units. • How can I decide on appropriate units of **2.MD.1.** Measure the length of an object by • The same unit of measure needs to be used in measurement, and what tools to use? selecting and using standard tools such as order to compare lengths. How does accuracy affect measurement? rulers, yardsticks, meter sticks, and measuring • A ruler, yardstick, and a meter stick are special tapes. types of number lines that are used for linear 2.MD.2. Measure the length of an object twice measurement. using different length units for the two • What I am measuring determines the unit I use to measurements. Describe how the two measure. measurements relate to the size of the unit chosen. **2.MD.6.** Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1,2, ..., and represent whole-number sums and differences within 100 on a number line diagram.

UNIT 6 – LINEAR MEASUREMENT

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UNIT 6 – LINEAR MEASUREMENT

Evidence

Vocabulary	Mathematical Practices (Bolded practices are priority for this unit)
 Standard Units of Measure 	 Make sense of problems and persevere in solving them.
• Unit	Reason abstractly and quantitatively.
Length	 Construct viable arguments and critique the reasoning of others.
Centimeter (cm)	Model with mathematics.
Meter	Use appropriate tools strategically.
• Inch	Attend to precision.
• Foot	 Look for and make use of structure.
Yard	 Look for and express regularity in repeated reasoning.
Width	
• Height	

KPBSD MATH CURRICULUM 2nd GRADE UNIT 7 - DATA AND TWO-STEP PROBLEM SOLVING

	Desired Results		
 Priority Standards 2.MD.9. Collect, record, interpret, represent, and describe data in a table, graph, or line plot. 2.OA.1. Use addition and subtraction strategies to estimate, then solve one- and two-step word problems (using numbers up to 100) involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions (e.g., by using objects, drawings and equations). Record and explain using equation symbols and a symbol for the unknown number to represent the problem. Supporting Standards 2.MD.10. Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph. 	Transfer Students will be able to independently use their learning to Collect, represent, and analyze data to solve problems.		
		aning ESSENTIAL QUESTIONS	
	 Students will understand that Data can be displayed visually and organized in different ways. Each type of graph is most appropriate for certain kinds of data. Inferences can be made based on data to solve problems. 	 Students will keep considering What are some ways data can be organized? How can I decide what type of graph to use once I have collected data? How is data used in the real-world? 	
	Acquisition		
	 Students will know Graphs make it easy to compare and understand data. Line plots are useful tools for collecting data because they show the number of things along a numeric scale. A number line has evenly spaced points corresponding to the numbers. 	 Students will be skilled at I can collect and display data on a line plot. I can draw a picture and/or bar graph to represent a given a set of data. I can measure lengths accurately and show the data using a line plot. I can interpret data from graphs to solve simple word problems. 	

UNIT 7 – DATA AND TWO-STEP PROBLEM SOLVING

Evidence		
<u>Vocabulary</u>	abulary Mathematical Practices (Bolded practices are priority for this unit)	
• Bar graph	Make sense of problems and persevere in solving them.	
• Data	Reason abstractly and quantitatively.	
Symbol	 Construct viable arguments and critique the reasoning of others. 	
 Pictograph 	Model with mathematics.	
Categorical data	Use appropriate tools strategically.	
Numerical data	Attend to precision.	
Line plot	Look for and make use of structure.	
Picture graph	 Look for and express regularity in repeated reasoning. 	
Scale		
• Set		

KPBSD MATH CURRICULUM 2nd GRADE UNIT 8 – PROBLEM SOLVING WITH MONEY

Desired Results

Desired Results			
Priority Standards		Transfer	
2.MD.8 . Solve word problems involving dollar bills and coins using	Students will be able to independently use their learning to Use addition and subtraction to solve real-world finance problems.		
the \$ and ¢ symbols appropriately. Supporting Standards 2.OA.1. Use addition and subtraction strategies to estimate, then solve one- and two-step word problems (using numbers up to 100) involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions (e.g., by using objects, drawings, and equations). Record and explain using equation symbols and a symbol for the unknown number to represent the problem.	Meaning		
	 ENDURING UNDERSTANDINGS Students will understand that Coins and dollars have specific values. Estimation can be used to check the reasonableness of an answer. 	ESSENTIAL QUESTIONS Students will keep considering • How can I solve problems involving money? • How can I represent the value of money?	
	Acquisition		
	 Students will know The values of quarters, dimes, nickels, pennies, and dollars. The appropriate way to show dollars and cents using the \$ and \$ symbols. Addition and subtraction can solve money problems. 	 Students will be skilled at I can count money to solve word problems. I can add and subtract to solve word problems involving money. I can use estimation to check the reasonableness of an answer. I can write monetary values using the \$ and \$ symbols. 	
	Evidence		
<u>Vocabulary</u>	Mathematical Practices (Bolded practices	are priority for this unit)	
 Dollar Penny Cent Quarter Nickel Dime Symbol 	 Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning. 		

KPBSD MATH CURRICULUM 2nd GRADE **UNIT 9 – REASONING WITH SHAPES**

Priority Standards

2.G.1. Identify and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces compared visually, not by measuring. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.

2.G.2. Partition a rectangle into rows and columns of same-size squares and count to find the total number of them.

2.G.3. Partition circles and rectangles into shares, describe the shares using the words halves, thirds, half of, third of, etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.

Desired Results			
	Transfer		
Students will be able to independently use their learnin Reason about shapes based on their attributes and the	5		
Meaning			
ENDURING UNDERSTANDINGS	ESSENTIAL QUESTIONS		
 Students will understand that A shape's attributes help identify it. A shape can be partitioned into equal shares. The inside of a rectangle can be measured. 	 Students will keep considering How can I describe and analyze shapes by examining their attributes? When would you need to partition a shape? How do I describe the equal shares of a partitioned shape? 		
Acquisition			
 Students will know Shapes have defining attributes. Circles and rectangles can be partitioned to show equal parts of a whole. Equal shares of identical wholes need not have the same shape. 	 Students will be skilled at I can identify triangles, quadrilaterals, pentagons, hexagons, and cubes. I can draw shapes with specific attributes, including faces and angles. I can partition a rectangle into rows and columns of equal-sized squares and count them. I can partition circles and rectangles into halves, thirds, and fourths. I can explain why equal shares of identical wholes may not have the same shape. 		

UNIT 9 – REASONING WITH SHAPES

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<u>Vocabulary</u>	Mathematical Practices (Bolded practices are priority for this unit)	
Attributes	 Make sense of problems and persevere in solving them. 	
Angles	Reason abstractly and quantitatively.	
• Faces	 Construct viable arguments and critique the reasoning of others. 	
Triangles	Model with mathematics.	
Quadrilaterals	Use appropriate tools strategically.	
 Pentagons 	Attend to precision.	
Hexagons	Look for and make use of structure.	
Cubes	 Look for and express regularity in repeated reasoning. 	
Partition		
Rows		
Columns		
Shares		
Halves		
Thirds		
• Fourths		