Essential Questions - K-5 Mathematics

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
K	*How do we count?*	*What do good counters do when counting?*	*How can counting help us compare sets?*	*How does counting help me solve problems?*
	What happens when we combine groups and what happens when we take groups apart?	*How can we represent what happens when we combine groups and when we take groups apart?*	*What are the different ways we can solve problems and represent our thinking?*	*How can I solve problems and represent my thinking?*
	How do we sort (classify) objects?	*How do we compare objects?*	*How do attributes help us compare and classify objects?*	*Why do I compare and classify objects?*
	What is a shape?	*How do we describe and model shapes in our environment?*	*How can shapes be put together to make new shapes?*	*How are shapes the same and how are they different?*
1	*How can I represent my thinking when solving addition/ subtraction problems?*	*What strategies can I use when solving addition/subtraction problems?*	*How are addition and subtraction related?*	*Why do I need a variety of strategies for problem solving?*
		What do the digits in a number represent?	*How can I break-apart (decompose) numbers to help me add/subtract?*	*Why does my addition or subtraction strategy work?*
			What does it mean to measure?	*What are the important things to remember when I measure?*
	How can I use charts and graphs to represent information (data)?	*How can I interpret the information found in charts and graphs?*	*How can I ask and answer questions using charts and graphs?*	
	What are the attributes of shapes?	*How can defining attributes help me create shapes?*	*How can defining attributes help me create and partition shapes?*	*How does a part (share) relate to its whole?*

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2	*How can I decompose (break apart) numbers to help me add and subtract?* *How can I use facts I know to help me solve facts I don't know?* *How can I build three-digit numbers in more than one way?* *How can attributes help me identify shapes?*	*What strategies can I use when I solve problems and how can I notate my thinking?* *How can I use mental strategies to help me add and subtract?* *How can I represent three-digit numbers in more than one way?* *What are the important things to remember when I measure?* *How can attributes help me classify and draw shapes?*	*Why do I need a variety of strategies for problem solving?* *What strategies help me become fluent with addition/subtraction facts?* *How can I decompose (break apart) numbers when adding and subtracting larger numbers?* *Why do I need a standard unit of measure?* *How does partitioning a shape help me name a part of a whole?*	*How can I be strategic and accurate when adding and subtracting?* *Why is it important to be fluent with my addition/subtraction facts?* *What strategies can I use when solving problems involving larger numbers?* *Why are measurement tools important?* *How can I partition shapes into equal shares?*
3	*What is multiplication/division and how does it relate to addition/subtraction?* *What strategies can I use when solving addition/subtraction problems with larger numbers?* *What is a fraction?*	*How are multiplication and division related?* *How can I use notation to represent my strategies for addition and subtraction?* *How can I build four-digit numbers in more than one way?* *How can a fraction be represented in a variety of ways?* *How can shapes belong to multiple categories?*	*What strategies help me become fluent with multiplication/ division?* *Why do I need a variety of strategies for adding and subtracting larger numbers?* *How can I build and represent four-digit numbers in more than one way?* *How can models help me compare fractions?* *How do I measure attributes of shapes (plane figures)?*	*Why does my multiplication/division strategy work?* *How can I be strategic and accurate with addition and subtraction strategies?* *Why is it important to represent four-digit numbers in a variety of ways?* *How can different fractions be equal?* *How does area measure relate to addition and multiplication?*

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4	*How can I compare numbers using multiplication?* *What strategies can I use to solve multi-step problems?* *How can I use place value to multiply and divide whole numbers?* *How do I know when fractions are equivalent?* *How can I classify two-dimensional figures?*	*How can I model and represent comparison situations?* *How can I use place value and properties of operations to work with whole numbers?* *How can I use equivalency to compare fractions?* *How can I use visual models to represent operations with fractions?* *How is the presence or absence of an attribute important when classifying two-dimensional figures?*	*How can I use the relationship of multiplication and division to solve comparison problems?* *Why do I need a variety of strategies for operations with whole numbers?* *How are fractions and decimals related?* *How are whole number operations related to fractions?* *How can I use what I know about two-dimensional figures to help me explore angle measurement?*	*Why are comparison situations helpful when problem solving?* *How can I be strategic and accurate in my operations with whole numbers?* *Why is it important to be flexible in how we represent numbers?* *How do I notate my thinking when solving problems with fractions?* *How can lines and angles help us classify two-dimensional figures?*
5	*How does the position of a digit in the number affect its value?* *How can I decompose numbers to help me divide?* *How can a fraction represent the division of two natural numbers?* *How can I use visual models to represent multiplication involving fractions?* *What is volume and how do we measure it?*	*What patterns occur in our number system?* *How do I notate my thinking when decomposing numbers to divide?* *How can I use visual models to represent division involving fractions?* *How can I apply my understanding of multiplication with whole numbers to multiplication with fractions?* *How does volume relate to the operations of multiplication and addition?* *How can two-dimensional figures belong to multiple categories?*	*How can visual models help support my operations with decimals?* *What strategies do I have to divide?* *How can I use notation to represent my strategies for division involving fractions?* *How can I reason about the product when multiplying fractions?* *What strategies can I use to solve addition and subtraction problems involving fractions?* *How can I organize two-dimensional figures based on their properties?*	*How can I extend my strategies of whole number operations to decimal operations?* *How is my strategy related to the numbers within the problem?* *How can I be strategic and accurate when adding and subtracting fractions?*