Montezuma Elementary Third Grade Math Descriptors of Learning

Descriptors	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Interprets time and elapsed time	Tell and write time to the nearest 5 minutes. Use and open number line or other tools to add time intervals in minutes.	Use open number lines, toolkit clocks, or other strategies to solve problems and number stories involving time intervals in minutes.	Solve word problems involving addition and subtraction of time intervals in minutes.	Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes.
Interprets data	Use information in a given scaled bar graph to solve one-step "how many more" and "how many less" problems.	Represent a data set with several categories on a given scaled bar graph and use the information presented in the graph to solve one-step "how many more" and "how many less" problems.	Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs.	Ongoing practice and application.
Solves word problems with four operations	Represents equal shares Use drawings, diagrams, and estimates to explain why answers to number stories involving addition and subtraction are reasonable.	Use mental computation and estimation strategies, including rounding to determine whether answers to addition and subtraction problems are reasonable.	Solve 2-step number stories using two of the four operations.	Solves two-step word problems involving the four operations and represents these problems using a variable.

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Solves problems involving measurement and estimation using lengths	Measure lengths to the nearest inch using rulers marked with whole and half inches.	Measure lengths to the nearest half-inch using rulers marked with wholes, halves, and fourths of an inch. Represent length data on a line plot where the horizontal scale is marked off in whole number and halves.	Measure lengths to the nearest half-inch using rulers marked with whole, halves, and fourths of an inch.	Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch.
Interprets products of whole numbers	Represent multiplication as equal groups with concrete objects and drawings.	Represent multiplication as equal groups with arrays.	Interpret multiplication in terms of equal groups.	Ongoing practice and application.
Interprets quotients of whole numbers	Equally share groups of concrete objects. Represent equal share with drawings.	Represent equal shares with drawings and number models.	Interpret division in terms of equal shares or equal groups.	Ongoing practice and application.
Understands how multiplication and division are related	No expectations for mastery at this point.	Know all products of one-digit numbers x 1, x 2, x 5, and x 10.	Know all square products of one-digit numbers. Know all products of one-digit numbers x 0, x 1, x 2, x 3, x 5, x 9, and x 10.	Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division or properties of operations. Know from memory all products of two one-digit numbers.

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Understands concepts of area and perimeter	No expectations for mastery at this point.	Recognize area as an attribute of plane figures. Solve problems involving perimeters of polygons.	Recognize area as an attribute of plane figures and understand concepts of area measurement. Distinguish between area and perimeter.	Ongoing practice and application.
Identifies, describes, and reasons with shapes and their attributes	No expectations for mastery at this point.	No expectations for mastery at this point.	Understand that shapes in different categories may share attributes that can define a larger category. Recognize subcategories of quadrilaterals.	Understand that shapes in different categories may share attributes and that the shared attributes can define a larger category. Recognize rhombuses, rectangles, and squares as examples of quadrilaterals and draw examples of quadrilaterals that do not belong to any of these subcategories.
Solves problems involving measurement and estimation using liquid volumes and masses	No expectations for mastery at this point.	No expectations for mastery at this point.	Estimate the mass of objects by comparing benchmark masses to the masses of various item.	Measure and estimate liquid volumes and masses of objects using standard units. Add, subtract, multiply or divide to solve one-step word problems involving masses or volumes that are given in the same unit.

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Understand fractions as number	No expectations for mastery at this point.	No expectations for mastery at this point.	Identify and represent given unit (1/b) and non-unit (a/b) fractions using pictures, words, and fraction circles.	Understand a fraction 1/b as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction a/b as the quantity formed by parts of size 1/b.
Understand fractions as number {Equivalent Fractions}	No expectations for mastery at this point.	No expectations for mastery at this point.	Use fraction circle pieces to determine that equivalent fractions are the same size.	Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.

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