**Virginia Standards of Learning Assessment**

**Grade 3 Mathematics Performance Level Descriptors**

| **Fail/Below Basic** | **Fail/Basic** | **Pass/Proficient**  | **Pass/Advanced**  |
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| A student performing at this level should be able to:*Reporting Category 1: Number and Number Sense** write and represent six-digit whole numbers with models
* read and write four-digit whole numbers
* identify a number greater than, less than, or equal to a whole number
* identify fractions using models

*Reporting Category 2: Computation and Estimation** identify related multiplication and division facts
* recall multiplication facts for 0 and 1
* recognize multiplication models
* add and subtract two three-digit whole numbers without regrouping
* add fractions using models

*Reporting Category 3: Measurement and Geometry** identify values of coins and bills
* count sets of coins and bills up to $2
* identify words representing units of measure
* measure length to nearest inch
* identify hour/minute hands on a clock
* tell time to nearest hour
* identify number of days in one week and number of months in one year
* name a polygon with 3, 4, or 5 sides
* identify congruent concrete models of geometric figures

*Reporting Category 4: Probability, Statistics, Patterns, Functions, and Algebra** identify an outcome given a pictorial representation of an event with up to four possible outcomes
* identify bar graphs/pictographs
* collect data to answer a question
* recognize repeating patterns using models
* identify symbols (= and ≠) used to represent mathematical relationships
 | A student performing at this level should be able to:*Reporting Category 1: Number and Number Sense** read and write six-digit whole numbers
* compare whole numbers using words
* round whole numbers to greatest place value
* identify and name fractions using models

*Reporting Category 2: Computation and Estimation** complete related multiplication and division facts
* recall some multiplication facts
* identify multiplication and division facts represented by models
* identify models representing the sum and difference of two whole numbers
* add and subtract two whole numbers without regrouping
* compare the sum and difference of fractions with like denominators using models

*Reporting Category 3: Measurement and Geometry** count sets of coins and bills
* measure length to nearest ½-inch
* count squares to determine area
* tell time to nearest five minutes
* identify number of minutes in an hour, hours in a day, and months in a year
* read temperature to nearest degree on a thermometer
* identify lines and line segments
* name polygons
* identify congruent and noncongruent figures (same orientation)

*Reporting Category 4: Probability, Statistics, Patterns, Functions, and Algebra** identify probabilities with impossible and certain events
* collect, organize, and read data represented in graphs
* recognize and describe repeating patterns
* identify number sentences representing equivalent relationships
 | A student performing at this level should be able to:*Reporting Category 1: Number and Number Sense** interpret place value for six-digit whole numbers
* round and compare whole numbers
* model, name, and compare fractions and mixed numbers

*Reporting Category 2: Computation and Estimation** add, subtract, multiply, and divide whole numbers to solve single-step problems
* estimate, add, and subtract whole numbers to solve multistep problems
* represent multiplication and division facts using models
* recall multiplication facts (0,1,2,5,10)
* add and subtract proper fractions with like denominators (up to 12) to solve problems

*Reporting Category 3: Measurement and Geometry** compare values of sets of coins and bills
* make change from $5 or less
* measure length, perimeter, and liquid volume
* find the area of a figure
* tell time to nearest minute
* find equivalent periods of time and elapsed time in one-hour increments
* read temperature to nearest degree, with scale increments of one or two degrees
* identify points, rays, angles, lines, and line segments
* name, combine, and subdivide polygons
* identify congruent and noncongruent figures

*Reporting Category 4: Probability, Statistics, Patterns, Functions, and Algebra** identify outcomes and likelihood of an event
* construct and interpret bar graphs and pictographs
* describe and extend patterns
* represent equivalent and non-equivalent relationships with number sentences
 | A student performing at this level should be able to:*Reporting Category 1: Number and Number Sense** describe place value relationships
* create number sentences comparing whole numbers or fractions and mixed numbers
* use models to represent fractions and mixed numbers
* relate improper fractions to mixed numbers

*Reporting Category 2: Computation and Estimation** apply related multiplication and division facts to solve practical problems
* recall, represent, and apply multiplication and division facts
* create and solve multistep practical problems using sums and differences of whole numbers
* generalize rules to add and subtract fractions (like denominators)

*Reporting Category 3: Measurement and Geometry** compute change from $5
* determine appropriate units of measure
* solve problems involving length, liquid volume, perimeter, and area
* determine elapsed time and equivalent periods of time to solve problems
* interpret temperature models
* combine and subdivide polygons and describe the results
* describe representations of geometric figures

*Reporting Category 4: Probability, Statistics, Patterns, Functions, and Algebra** analyze outcomes and make predictions for probability scenarios
* design data investigations, analyze graphs, and formulate questions related to graphs
* create and extend patterns
* create equations to represent equivalent mathematical relationships
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