Grade Five Year Overview

Grade Five Year Overview: Mathematics and Numeracy

Probability experiments (predict and test the results of single event or outcome experiments such as rolling a die, spinning one spinner, tossing a coin; predict results, conduct experiments (ie 10 rolls of a die), record results with tally marks/graph)

Term One Mathematics Learning Standards Numeracy Connections Number concepts to 1 000 000 (understanding of place value with hundreds and tens of thousands, hundreds, tens and What is numeracy? ones, writing and reading numbers to 1 000 000) Where do we use math in Addition and Subtraction (review and practice facts to 20 with increasing fluency using flexible strategies with recall of many our lives and in other areas facts; addition and subtraction to 1 000 000 multiple strategies using both mental math and symbolic notation) of learning? Multiplication and division facts to 100 (emerging computational fluency through mental math strategies such as number patterns, skip counting/multiples, decomposing, using known facts; develop fluency with 2x, 5x and 10x questions; practice Creating, reading and through routines, apps such as Multiples and math games) interpreting graphs and Multiplication and division (review of two or three-digit numbers by one-digit numbers (using skip counting, decomposing, visual information, repeated addition or subtraction, concrete materials or pictures, use of arrays; problem solving) connected to other areas of Fractions (review of fraction concepts including tenths, hundredths, comparing and ordering fractions along a number line) learning or school and Decimal numbers (to thousandths; connecting to place value and fraction understanding) community events. Communicating and Representing curricular competencies Double bar using one-to-one and many-to-one correspondence (use of key or legend to indicate many-to-one relationship; collect data, represent data in tables, graphing data, comparing and interpreting data)

Numeracy Connections Term Two Mathematics Learning Standards Number concepts to 1 000 000 (decomposition of and flexibility with quantities to 1 000 000, counting fluently in different What is numeracy? ways to 1 000 000 comparing and ordering numbers to 1 000 000 using benchmark numbers) Where do we use math in our Addition and Subtraction (facts to 20 with extending fluency - increased flexibility and using known facts to solve unknown lives and in other areas of facts, applying understanding of facts to 20 to greater numbers; addition and subtraction to 1 000 000 using multiple mental learning? math and computational strategies with symbolic notation, problem solving with numbers to 1 000 000) Decimal addition and subtraction (review to tenths and hundredths and then to thousandths, connect to whole number Fair Share numeracy task such as: The playground is addition and subtraction strategies such as decomposing, compensating, adding up to find the difference) available to students to use Multiplication and division facts to 100 (emerging computational fluency through mental math strategies such as number for 15 minutes at recess and patterns, skip counting/multiples, decomposing, using known facts; develop fluency with 2x, 3x,5x and 10x questions; 30 minutes at lunch. For practice through routines, apps such as Multiples and math games) safety reasons, a maximum of Multiplication and division of three-digit numbers by two or three-digit numbers (using decomposing, distributive and 75 students can use it at a commutative properties, repeated addition or subtraction, use of arrays, division questions with remainders, problem solving) time and there are 250 Equivalent fractions (building and comparing equivalent fractions using concrete materials, pictures and symbols; greater students at the school. How than, less than, placing on a number line, using fraction and decimal benchmarks, explaining and justifying decisions) could time on the playground Reasoning and Analyzing and Understanding and Solving curricular competencies be shared fairly? What might One-step equations (connect to number patterns, solving for an unknown in equations such as 8 + n = 12 using all four operations) you need to consider? Duration, using measurement of time (problem solving tasks measuring elapsed time and duration of time) Single transformations (single object/shape movement concretely/visually- slide/translation, flip/reflection, turn/rotation)

Increasing and decreasing patterns (represent patterns rules using words, numbers, symbols and variables; expressions) **Term Three Mathematics Learning Standards Numeracy Connections** Number concepts to 1 000 000 (fluency with numbers to 1 000 000 and place value understanding) What is numeracy? Addition and Subtraction (facts to 20 with extending fluency - increased flexibility and using known facts to solve unknown Where do we use math in facts, applying understanding of facts to 20 to greater numbers; addition and subtraction to 1 000 000 using multiple mental our lives and in other areas math and computational strategies with symbolic notation; problem solving with numbers to 1 000 000) of learning? Decimal addition and subtraction (to thousandths, connect to whole number addition and subtraction strategies such as decomposing, compensating, adding up to find the difference) Plan and Design numeracy Multiplication and division facts to 100 (emerging computational fluency through mental math strategies such as number task such as: Plan and $patterns, skip \ counting/multiples, \ decomposing, \ using \ known facts; \ develop \ fluency \ with \ 2x, \ 3x, \ 4x, \ 5x \ and \ 10x \ questions; \ develop \ fluency \ with \ 2x, \ 3x, \ 4x, \ 5x \ and \ 10x \ questions; \ develop \ fluency \ with \ 2x, \ 3x, \ 4x, \ 5x \ and \ 10x \ questions; \ develop \ fluency \ with \ 2x, \ 3x, \ 4x, \ 5x \ and \ 10x \ questions; \ develop \ fluency \ develop \ develop \ fluency \ develop \ fluency \ develop \ develop \ develop \ fluency \ develop \ fluency \ develop \ fluency \ develop \ develop \ fluency \ develop \ develop$ design a garden that will be practice through routines, apps such as Multiples and math games) a pumpkin patch in the fall. Multiplication and division of three-digit numbers by two or three-digit numbers (using decomposing, distributive and How much space does commutative properties, repeated addition or subtraction, use of arrays, division questions with remainders, problem solving) each pumpkin plant need? Equivalent fractions & Decimals (connecting fraction & decimal concepts, comparing and ordering, different representations) How many pumpkins do Connecting and Reflecting curricular competencies vou want to have? What Classification of prisms and pyramids (attributes of 2D shapes as part of prisms and pyramids, investigating quadrilaterals, describing, other things do you need to comparing and identifying prisms and pyramids, constructing different based pyramids and rectangular and triangular prisms) consider? Area measurement of squares and rectangles (use rulers, measuring tapes, geoboards or grids to create and measure the area of squares and rectangles; connect to multiplicative relationship; investigate relationship between area and perimeter) Financial literacy - monetary calculations including making change to \$1000 and developing simple financial plans (mental math including decomposing strategies to make change/find the difference, record financial calculations using decimal numbers, use simulations, make plans using charts or tables and explain and justify choices or decisions)

