Beginning of the mathematical strands: Number awareness, Statistics and Probability, Patterns and Relations, and Shape and Space

Strand	Specific Indicators (the student will)
Number	- Describe, represent, and compare quantities from 0 to 10-N - Compare quantities, using more, fewer, as many as, and the same-N - Recognize and work with whole numbers from 0 to 100-N - Recognize at a glance arrangement of 1-10 objects-N - Demonstrate addition with answers to 20 and corresponding subtraction-N - Recognize and apply whole numbers to 100-N - Demonstrate addition with answers to 100 and corresponding subtraction -N - Recognize and work with whole numbers 0-1000-N - Describe and apply mental math strategies for adding and subtracting 2-digit numerals-N - Demonstrate addition with answers to 1000 and corresponding subtraction-N - Demonstrate understanding of multiplication and division to 5x5-N - Demonstrate an understanding of fractions-N - Work with whole numbers to 10 000-N - Describe and apply mental math strategies for multiplication and division facts to 9x9-N - Demonstrate addition with answers to 10 000 and corresponding subtraction-N - Use multiplication (2 or 3-digit by 1-digit) and division (2-digit by 1-digit)strategies-N - Explore proper fractions and decimals (to hundredths)-N - Represent and describe whole numbers to 100 000-N - Apply mental math strategies for multiplication and division facts to 81-N - Explore proper fractions and decimals (to thousandths)-N - Use multiplication (2-digit by 2-digit) and division (3-digit by 1-digit)strategies-N
Statistics and Probability	- Gather and record data about self and others-SP - Construct and interpret concrete graphs and pictographs-SP - Collect first-hand data and organize it to answer questions-SP - Construct, label, and interpret bar graphs to solve problems-SP - Construct and interpret pictographs and bar graphs-SP - Represent, display, and interpret double bar graphs to draw conclusions-SP - Describe, compare, and communicate the likelihood of indicators-SP

Shape and Space	• Use direct measurement to compare two objects based on a single attribute-SS • Sort, build, and classify real world objects-SS • Demonstrate an understanding of measurement-SS • Sort 2-D shapes and 3-D objects using one attribute -SS • Estimate, measure, compare, and order, using nonstandard units of measurement-SS • Describe, compare, and construct 3-D objects and 2-D shapes-SS • Relate the passage of time to common activities-SS • Estimate, measure, and record using whole numbers and standard measurement units-SS • Describe 3-D objects according to faces, edges, and vertices-SS • Sort regular and irregular polygons-SS • Read and record time and dates-SS • Determine area of regular and irregular 2-D shapes-SS • Identify and create line symmetries-SS • Demonstrate understanding of measuring length, volume and capacity-SS • Describe the relationship of two 3-D objects and 2-D shapes-SS • Identify, perform, and draw a single transformation-SS
Patterns and Relations	• Identify, reproduce, extend, and create repeating patterns from daily experiences.-PR • Describe, reproduce, extend, and create repeating patterns from their daily experiences-PR • Describe equality and record using the symbol-PR • Explore numerical and non-numerical patterns in daily experience-PR • Demonstrate and explain equality and inequality, and record symbolically-PR • Demonstrate an understanding of increasing and decreasing numerical and non-numerical patterns-PR • Identify and explain mathematical relationships-PR • Represent, describe, and extend patterns and relationships using charts and tables-PR • Express problems in one-step equations and solve-PR • Determine the pattern rule to make predictions about subsequent elements-PR • Represent algebraic expressions in multiple ways-PR