Strand: Numbers

Name:_____ Date:_____

Math 7 Numbers Specific Outcomes		Still Learning	On My Way	With Ease
General Outcome: Develop number sense.	**The big ideas/Enduring Understandings (Rocks)**	**Include evidence.**		
	Can I solve problems involving percents from 1% to 100%?			
	Can I add positive fractions with like denominators?			
	❑ concretely – with objects,			
	❑ pictorially – with pictures			
	❑ symbolically – with numbers			
	Can I add mixed numbers with like denominators?			
	❑ concretely – with objects,			
	❑ pictorially – with pictures			
	❑ symbolically – with numbers			
	Can I subtract positive fractions with like denominators?			
	❑ concretely – with objects,			
	❑ pictorially – with pictures			
	❑ symbolically – with numbers			
	Can I subtract mixed numbers with like denominators?			
	❑ concretely – with objects,			
	❑ pictorially – with pictures			
	❑ symbolically – with numbers			
	Can I add positive fractions with unlike denominators?			
	❑ concretely – with objects,			
	❑ pictorially – with pictures			
	❑ symbolically – with numbers			
	Can I add mixed numbers with unlike denominators?			
	❑ concretely – with objects,			
	❑ pictorially – with pictures			
	❑ symbolically – with numbers			
	Can I subtract positive fractions with unlike denominators?			
	❑ concretely – with objects,			
	❑ pictorially – with pictures			
	❑ symbolically – with numbers			
	Can I subtract mixed numbers with unlike denominators?			
	❑ concretely – with objects,			
	❑ pictorially – with pictures			
	❑ symbolically – with numbers			

	Math 7 Numbers Specific Outcomes	Still Learning	On My Way	With Ease
	Can I add integers?			
	❑ concretely – with objects,			
	❑ pictorially – with pictures			
	❑ symbolically – with numbers			
	Can I subtract integers?			
	❑ concretely – with objects,			
	❑ pictorially – with pictures			
	❑ symbolically – with numbers			
	Important to know and be able to do (Sand)	**Include evidence.**		
	Can I compare and order whole numbers using place value?			
	Can I add decimals to solve problems?			
	Can I subtract decimals to solve problems?			
	Can I multiply decimals to solve problems?			
	Can I divide decimals to solve problems?			
	Can I compare and order positive decimals (to thousandths)			
	❑ using place value?			
	❑ using benchmarks?			
	Can I compare and order positive fractions by			
	❑ using equivalent fractions?			
	❑ using benchmarks?			
	Can I write a positive terminating decimal as a fraction?			
	Can I write a positive fraction as a terminating decimal?			
	Worth being familiar with (Water)	**Include evidence.**		
	Can I determine and explain why a number is divisible by 2, 3, 4, 5, 6, 8, 9 or 10?			
	Can I determine and explain why a number cannot be divided by 0?			
	Can I write positive repeating decimals as a fraction?			
	Can I write a positive fraction as a repeating decimal?			

Strand: Patterns and Relations

Name:_____Date:_____

Math 7 Patterns Specific Outcomes		Still Learning	On My Way	With Ease
General Outcome: Use patterns to describe the world and to solve problems.	**Important to know and be able to do (Sand)**	**Include evidence.**		
	Can I write patterns as equations?			
	Can I create a table of values from an equation?			
	Can I graph a table of values?			
	Can I analyze a graph to draw conclusions?			

Math 7 Variables and Equations Specific Outcomes		Still Learning	On My Way	With Ease
General Outcome: Represent algebraic expressions in multiple ways.	**The big ideas/Enduring Understandings (Rocks)**	**Include evidence.**		
	Can I manipulate an equation to demonstrate that it remains equal?			
	❑ concretely – with objects			
	❑ pictorially – with pictures			
	❑ symbolically – with numbers			
	Can I solve equations showing the solution steps?			
	❑ using addition			
	❑ using subtraction			
	❑ using multiplication			
	❑ using division			
	Can I substitute a value for a variable to solve an expression?			
	Important to know and be able to do (Sand)	**Include evidence.**		
	Can I explain the difference between an expression and an equation?			
	Can I solve two step equations? (e.g. $4n + 2 = 10$)			

Strand: Shape and Space

Name:_____Date:_____

Math 7 Measurement Specific Outcomes		Still Learning	On My Way	With Ease
General Outcome: Use direct and indirect measurement to solve problems.	**The big ideas/Enduring Understandings (Rocks)**	**Include evidence.**		
	Can I describe how radius, diameter and circumference are related?			
	Can I relate pi to circumference?			
	Can I solve problems involving the radius, diameter and circumference of a circle?			
	Can I develop and apply a formula to calculate the area of triangles?			
	Can I develop and apply a formula to calculate the area of parallelograms?			
	Can I calculate the area of circles?			
	Important to know and be able to do (Sand)	**Include evidence.**		
	Can I determine the sum of the central angles of a circle?			
	Worth being familiar with (Water)	**Include evidence.**		
	Can I construct circles with a specific radius or diameter?			

Strand: Shape and Space

Name:_____Date:_____

Math 7 3-D Objects and 2-D Shapes Specific Outcomes		Still Learning	On My Way	With Ease
General Outcome: Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them.	**Important to know and be able to do (Sand)**	**Include evidence.**		
	Can I bisect line segments?			
	Can I bisect angles?			
	Worth being familiar with (Water)	**Include evidence.**		
	Can I draw perpendicular line segments? (meet at 90^{o})			
	Can I draw parallel line segments?			

Strand: Shape and Space

Name:_____Date:_____

Math 7 Transformations Specific Outcomes		Still Learning	On My Way	With Ease
General Outcome: Describe and analyze position and motion of objects and shapes.	**The big ideas/Enduring Understandings (Rocks)**	**Include evidence.**		
	Can I identify and plot points in the four quadrants of a Cartesian plane?			
	Can I perform and describe transformations of 2-D shapes?			
	❑ translations			
	❑ rotations			
	❑ reflections			

Strand: Statistics and Probability

Name:_____Date:_____

Math 7 Data Analysis Specific Outcomes		Still Learning	On My Way	With Ease
General Outcome: Collect, display and analyze data to solve problems.	**The big ideas/Enduring Understandings (Rocks)**	**Include evidence.**		
	Can I calculate the measures of central tendency?			
	❑ mean			
	❑ median			
	❑ mode			
	❑ range			
	Can I interpret circle graphs to solve problems?			
	Can I construct and label circle graphs?			
	Important to know and be able to do (Sand)	**Include evidence.**		
	Can I determine the most appropriate measures of central tendency to report findings?			
	Can I determine the effect on the mean, median and mode when an outlier is included in a data set?			

Strand: Statistics and Probability

Name:_____Date:_____

Math 7 Chance and Uncertainty Specific Outcomes		Still Learning	On My Way	With Ease
General Outcome: Use experimental or theoretical probabilities to represent and solve problems involving uncertainty.	**The big ideas/Enduring Understandings (Rocks)**	**Include evidence.**		
	Can I express probabilities as			
	❑ ratios?			
	❑ fractions?			
	❑ percents?			
	Can I identify all possible outcomes for a probability experiment involving two independent events?			
	Important to know and be able to do (Sand)	**Include evidence.**		
	Can I display data using a tree diagram, table or other graphic organizer?			
	Worth being familiar with (Water)	**Include evidence.**		
	Can I conduct an experiment to compare the theoretical and experimental probabilities of two independent events?			