



	Mathematics Curriculum Framework	I CAN Learn [®] Lesson #	I CAN Learn [®] Lesson Title
	ALGEBRA		
8.A.1.1.	Students are able to use properties to expand, combine, and simplify 1st degree algebraic expressions with the set of integers.	HA1-075	Simplifying Algebraic Expressions by Combining Like Terms
		HA1-076	Basic Distributive Property
		HA1-085	Simplifying Expressions Using the Properties of Real Numbers
		HA1-079	Using a Concrete Model to Simplify Algebraic Expressions
		HA1-090	Simplifying Expressions Using the Property of -1
		HA1-080	Simplifying and Evaluating Algebraic Expressions Containing Grouping Symbols
8.A.2.1.	Students are able to write and solve two-step 1st degree equations, with one variable, and one-step inequalities, with one variable, using the set of integers.	MPA-100	Solving Two-Step Equations with Positive Coefficients
		MPA-165	Solving Two-Step Equations with Negative Coefficients
		MPA-101	Solving Two-Step Equations by Combining Like Terms
8.A.3.1.	Students are able to describe and determine linear relationships.	MPA-170	Solving Equations Using the Distributive Property
		MPA-175	Solving Equations with Variables on Both Sides
		MPA-109	Solving and Graphing Linear Inequalities on a Number Line
		MPA-125	Formulating a Possible Problem Situation Given an Equation
		MPA-118	Modeling Algebraic Expressions and Equations Using Algebra Tiles
		HA1-124	Using a Concrete Model to Solve One- and Two-Step Equations
8.A.4.1.	Students are able to create rules to explain the relationship between numbers when a change in the first variable affects the second variable.	MPA-103	Distinguishing Between Relations and Functions
		MPA-142	Solving Problems With Linear Functions and Direct Variation
		MPA-270	Generating Algebraic Expressions from Patterns of Models
8.A.4.2.	Students are able to describe and represent relations using tables, graphs, and rules.	HA1-402	Translating Among Multiple Representations of Functions
		MPA-103	Distinguishing Between Relations and Functions
		MPA-142	Solving Problems With Linear Functions and Direct Variation
	GEOMETRY		
8.G.1.1.	Students are able to describe and classify prisms, pyramids, cylinders, and cone.	MPA-072	Identifying 3-D Figures
		MPA-106	Identifying a Solid Figure From a Net
		MPA-107	Constructing Three-Dimensional Figures and Examining Their Dimensions
		MPA-115	Finding the Volumes of Prisms, Cylinders, Pyramids, and Cones Using Models
8.G.1.2.	Students, when given any two sides of an illustrated right triangle, are able to use the Pythagorean Theorem to find the third side.	MPA-066	Solving Problems Using the Pythagorean Theorem
8.G.2.1.	Students are able to write and solve proportions that express the relationships between corresponding parts of similar quadrilaterals and triangles.	MPA-121	Identifying Similar and Congruent Polygons Using Proportions
		MPA-111	Comparing Perimeters, Areas, and Volumes of Similar Geometric Figures and Solids
	MEASUREMENT		
8.M.1.1.	Students are able to apply proportional reasoning to solve measurement problems with rational number measurements.	MPA-080	Solving Proportions
		MPA-110	Solving Problems Using Proportions, Scale Drawings, Models, and Maps

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		MPA-155	Comparing and Converting Rates
		MPA-121	Identifying Similar and Congruent Polygons Using Proportions
8.M.1.2.	Students are able to find area, volume, and surface area with whole number measurements.	MPA-071	Finding the Area of a Circle
		MPA-068	Finding the Area of Irregular Figures
		MPA-160	Plotting Polygons and Finding the Area
		MPA-073	Finding the Surface Area of Rectangular Prisms
		MPA-074	Finding the Surface Area of Cylinders
		MPA-075	Finding the Volume of Rectangular Prisms
		MPA-076	Finding the Volume of Cylinders
		MPA-115	Finding the Volumes of Prisms, Cylinders, Pyramids, and Cones Using Models
		MPA-111	Comparing Perimeters, Areas, and Volumes of Similar Geometric Figures and Solids
NUMBER SENSE			
8.N.1.1.	Students are able to represent numbers in a variety of forms and identify the subsets of rational numbers.	MPA-124	Classifying Numbers in the Real Number System
		MPA-081	Converting Fractions, Decimals, and Percents I
		MPA-082	Converting Fractions, Decimals, and Percents II
8.N.2.1.	Students are able to read, write, and compute within any subset of rational numbers.		
		MPA-083	Finding Number Given Percent and Total
		MPA-084	Finding Percent Given Number and Total
		MPA-085	Finding Total Given Number and Percent
		MPA-086	Solving Problems Using Percent
		MPA-087	Finding Percent Increase and Decrease
		MPA-126	Solving Real-World Problems Involving Sales Tax
		MPA-127	Solving Real-World Problems Involving Discounts, Markups, and Commission
		MPA-128	Solving Real-World Problems Involving Simple and Compound Interest
		MPA-088	Solving Real-World Problems Involving Percent
8.N.3.1.	Students are able to use various strategies to solve multi-step problems involving rational numbers.	MPA-003	Using Four-Step Plan for Problem Solving
		MPA-042	Solving Problems Using an Equation
		MPA-007	Solving Problems Using Logical Reasoning Skills
		MPA-125	Formulating a Possible Problem Situation Given an Equation
		MPA-116	Solving Real-Life Problems by Using Guess-and-Check and Working Backwards
		MPA-064	Finding Square Roots
		MPA-065	Estimating Square Roots
		MPA-006	Determining Reasonableness of Answers and Appropriate Method of Computation
STATISTICS AND PROBABILITY			
8.S.1.1.	Students are able to find the mean, median, mode, and range of a data set from a stem-and-leaf plot and a line plot.	MPA-835	Using Measures of Central Tendency
		MPA-094	Interpreting and Constructing Line Plots
		MM1-396	Creating Line Plots From Frequency Tables
		MPA-096	Constructing Stem-and-Leaf Plots
8.S.1.2.	Students are able to use a variety of visual representations to display data to make comparisons and predictions.	MPA-092	Reading and Interpreting Bar, Line, and Circle Graphs
		MM1-400	Interpreting Double Bar Graphs
		MPA-131	Interpreting and Creating Histograms
		MPA-132	Interpreting and Creating Scatterplots
		MPA-098	Making Predictions from Graphs and Choosing the Correct Graph
		MPA-099	Recognizing Misleading Statistics and Graphs
		MPA-840	Interpreting Data
8.S.2.1.	Students are able to find the sample space and compute	MPA-112	Constructing Sample Spaces for Compound Events (Dependent and Independent)

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	probability for two simultaneous independent events.		
		MPA-113	Finding the Probability of Compound Events Through Experimentation
		MPA-114	Finding the Odds of Events and Experimental Probability from a Math Model

MM1-Foundations of Math

MPA - Pre-Algebra

HA1-Algebra

Note: The Middle School Standards for Mathematical Content were taken from the South Dakota 6-8 Standards for Mathematics document.