



Alignment Document
State of Wyoming and Aventa Learning Integrated Math

Integrated Math

Standards	Benchmarks	Unit Name	Course Topic Description
1 Students use numbers, number sense, and number relationships in a problem-solving situation.	1.1 Students represent and apply real numbers in a variety of forms.	Number Sense	Overview
	1.2 Students apply the structure and properties of the real number system.	Number Sense	Overview
	1.3 Students explain their choice of estimation and problem solving strategies and justify results of solutions in problem-solving situations involving real numbers.	Number Sense	Single-Step Estimation
		Operations	Number Sense Problem Solving
	1.4 Students use proportional reasoning to solve problems.	Operations	Proportions
2 Students apply geometric concepts, properties, and relationships in a problem-solving situation.	2.1 Students use transformations, congruency, symmetry, similarity, perpendicularity, parallelism, and the Pythagorean Theorem to solve problems.	Geometric Movement	Transformations
		Geometric Movement	Overview
		Geometric Figures	Points, Lines, & the Plane
	2.2 Students communicate, using mathematical language, to:		
	2.2.a Interpret, represent, or create geometric figures;	Geometric Figures	Perpendicular and Parallel Lines
		Geometric Figures	Polygons
Geometric Figures		Points, Lines, & the Plane	
Geometric Figures		Prisms, Cones & Pyramids	
	Geometric Movement	Overview	

	2.2.b Draw or build figures from a mathematical description;	Geometric Figures	Overview
		Geometric Movement	Overview
	2.2.c Analyze properties and determine attributes of 2- and 3-dimensional objects.	Geometric Movement	Overview
	2.3 Students communicate the reasoning used in identifying geometric relationships in problem-solving situations.	Geometric Figures	Points, Lines, & the Plane
	2.4 Students solve problems involving the coordinate plane such as the distance between two points, the midpoint, and slope.	Geometric Figures	Points, Lines, & the Plane
		Geometric Movement	Overview
2.5 Students connect geometry with other mathematical topics.	Geometric Figures	Overview	
	Geometric Movement	Overview	
3 Students use a variety of tools and techniques of measurement in a problem-solving situation.	3.1 Students apply estimation and measurement using the appropriate methods and units to solve problems involving length, weight/mass, area, surface area, volume, and angle measure.	Measurement	Volume
		Measurement	Area
		Operations	Estimation
	3.2 Students demonstrate an understanding of both metric and U. S. customary systems. Students are able to convert within each system.	Measurement	Metric Measurement
		Measurement	Customary Measurements
	3.3 Students identify and apply scale, ratios, and proportions in solving measurement problems.	Operations	Ratio
3.4 Students solve problems of angle measure including those involving polygons or parallel lines cut by a transversal.	Geometric Figures	Polygons	
3.5 Students solve indirect measurement problems.	Measurement	Overview	
4 Students use algebraic methods to investigate, model, and interpret patterns and functions involving numbers, shapes, data, and graphs in a problem-solving situation.	4.1 Students use algebraic concepts, symbols, and skills to represent and solve real-world problems.	Algebraic Sense	Overview
		Algebraic Sense	Intro to Algebraic Expressions
	4.2 Students write, model, and evaluate expressions, functions, equations, and	Algebraic Sense	Write and Evaluate Inequalities

	inequalities.	Algebraic Sense	Overview
	4.3 Students graph linear equations and interpret the results in solving algebraic problems.	Algebraic Sense	Graphing Equations & Inequalities
		Algebraic Sense	Number Patterns
	4.4 Students solve, graph, or interpret systems of linear equations.	Algebraic Sense	Systems of two linear equations with two variables
	4.5 Students connect algebra with other mathematical topics.	Algebraic Sense	Overview
5 Students use data analysis and probability to analyze given situations and the results of experiments.	5.1 Students apply knowledge of mean, median, mode, and range to interpret and evaluate information and data.	Introduction to Probability	Central Tendencies of data
	5.2 Students draw reasonable inferences from statistical data and/or correlation/best fit line to predict outcomes.	Introduction to Probability	Overview
	5.3 Students communicate about the likelihood of events using concepts from probability.	Introduction to Probability	Overview
	5.3.a sample space	Introduction to Probability	Experimental Probability
		Introduction to Probability	Overview
	5.3.b evaluate simple probabilities	Introduction to Probability	Probability
		Introduction to Probability	Overview
		Introduction to Probability	Overview
	5.3.c evaluate experimental vs. theoretical	Introduction to Probability	Experimental Probability
		Introduction to Probability	Theoretical Probability
Introduction to Probability		Overview	
5.4 Students determine, collect, organize, and analyze relevant data needed to make conclusions.	Introduction to Probability	Examine Data Bias	
	Introduction to Probability	Overview	