



Alignment Document
State of Wyoming and Aventa Learning Consumer Math

Consumer 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.	All about Jobs: Introduction	Addition and Subtraction of Decimals
		All about Jobs: Introduction	Multiplication and Division of Whole Numbers and Decimals
		All about Jobs: Introduction	Finding a Job
		All about Jobs: Introduction	Computing Pay by Hourly Wages
		All about Jobs: Introduction	Fractions, Decimals, and Percents
		All about Jobs: Introduction	Percents to Decimals or Fractions
		All about Jobs: Introduction	Percent of a Number
		Wages	Addition and Subtraction of Common Fractions
		Wages	Multiplication of Fractions
	Wages	Division of Fractions	
	1.2 Students apply the structure and properties of the real number system.	All about Jobs: Introduction	Review of Order of Operations
		All about Jobs: Introduction	Wages and Tips
	1.3 Students explain their choice of estimation and problem solving strategies and justify results of solutions in problem-solving situations involving real numbers.	Transportation	Estimating Using Mileage Charts
Checking and Savings Accounts		Predicting From the Curve	



		Credit	Estimating and Comparing
		Credit	Estimate the APR
	1.4 Students use proportional reasoning to solve problems.	Housing	Scale Drawings
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.	Housing	Finding the Area of the Room
		Housing	Scale Drawings
	2.2 Students communicate, using mathematical language, to:		
	2.2.a Interpret, represent, or create geometric figures;		
	2.2.b Draw or build figures from a mathematical description;	Housing	Scale Drawings
	2.2.c Analyze properties and determine attributes of 2- and 3-dimensional objects.		
	2.3 Students communicate the reasoning used in identifying geometric relationships in problem-solving situations.		
	2.4 Students solve problems involving the coordinate plane such as the distance between two points, the midpoint, and slope.	Personal Finances	The Coordinate System
Personal Finances		Writing Linear Equations	
Personal Finances		Graphing an Equation Using Points	
Personal Finances		Graphing Using Slope and Y-Intercept	
Personal Finances		Net Worth and Purchasing Power	
Personal Finances		Inflation Rate	
Personal Finances		Budgets (graph)	
Checking and Savings Accounts		Working with Exponential Equations	

		Checking and Savings Accounts	Calculator With An Exponent Key
		Checking and Savings Accounts	Predicting Using Exponential Functions
		Checking and Savings Accounts	Graphing Exponential Equations
		Checking and Savings Accounts	Plotting the curve
		Checking and Savings Accounts	Predicting From the Curve
		Checking and Savings Accounts	Plotting a Decay Curve
	2.5 Students connect geometry with other mathematical topics.		
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.	Transportation	Estimating Using Mileage Charts
		Housing	Decorating and Remodeling
		Housing	Finding the Area of the Room
		Housing	Scale Drawings
	3.2 Students demonstrate an understanding of both metric and U. S. customary systems. Students are able to convert within each system.		
	3.3 Students identify and apply scale, ratios, and proportions in solving measurement problems.	Housing	Scale Drawings
3.4 Students solve problems of angle measure including those involving polygons or parallel lines cut by a transversal.			
3.5 Students solve indirect measurement problems.			
4 Students use algebraic methods to investigate, model, and interpret patterns and functions involving numbers, shapes, data, and graphs	4.1 Students use algebraic concepts, symbols, and skills to represent and solve real-world problems.	Wages	Expressions
		Wages	Evaluating Expressions and Formulas



<p>in a problem-solving situation.</p>		Wages	Solving Equations: Addition and Subtraction
		Wages	Solving Equations: Multiplication and Division
		Wages	Solving Two-Step Equations
		Wages	Salary
		Wages	Commission
		Transportation	Distance
		Personal Finances	Writing Linear Equations
		Personal Finances	Graphing an Equation Using Points
		Personal Finances	Graphing Using Slope and Y-Intercept
		Personal Finances	Net Worth and Purchasing Power
		Personal Finances	Inflation Rate
		Checking and Savings Accounts	Working with Exponential Equations
		Checking and Savings Accounts	Predicting Using Exponential Functions
		Checking and Savings Accounts	Graphing Exponential Equations
		Checking and Savings Accounts	Plotting the curve
		Checking and Savings Accounts	Predicting From the Curve
		Checking and Savings Accounts	Plotting a Decay Curve
		Credit	Working with Finance Charges
	Credit	Variable Rates	



		Credit	Loans
		Credit	Finding the APR
		Credit	Estimate the APR
	4.2 Students write, model, and evaluate expressions, functions, equations, and inequalities.	Wages	Expressions
		Wages	Evaluating Expressions and Formulas
		Wages	Solving Equations: Addition and Subtraction
		Wages	Solving Equations: Multiplication and Division
		Wages	Solving Two-Step Equations
		Wages	Salary
		Wages	Commission
		Checking and Savings Accounts	Working with Exponential Equations
		Checking and Savings Accounts	Calculator With An Exponent Key
		Checking and Savings Accounts	Predicting Using Exponential Functions
		Checking and Savings Accounts	Graphing Exponential Equations
		Checking and Savings Accounts	Plotting the curve
		Checking and Savings Accounts	Predicting From the Curve
		Checking and Savings Accounts	Plotting a Decay Curve
		Checking and Savings Accounts	Simple Interest
		Checking and Savings Accounts	Compound Interest

		Checking and Savings Accounts Housing Housing Housing Housing	Working with Compound Interest Maximum Rent Buying a House Maximum to Spend on a House Finding Appreciation
	4.3 Students graph linear equations and interpret the results in solving algebraic problems.	Personal Finances Personal Finances Personal Finances Personal Finances Personal Finances Personal Finances Personal Finances	The Coordinate System Writing Linear Equations Graphing an Equation Using Points Graphing Using Slope and Y-Intercept Net Worth and Purchasing Power Inflation Rate Budgets (graph)
	4.4 Students solve, graph, or interpret systems of linear equations.		
	4.5 Students connect algebra with other mathematical topics.		
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.	Deductions, Taxes, and Insurance	Mean, Median, and Mode
	5.2 Students draw reasonable inferences from statistical data and/or correlation/best fit line to predict outcomes.	Deductions, Taxes, and Insurance	Mean, Median, and Mode
	5.3 Students communicate about the likelihood of events using concepts from probability.		



	5.3.a sample space		
	5.3.b evaluate simple probabilities		
	5.3.c evaluate experimental vs. theoretical		
	5.4 Students determine, collect, organize, and analyze relevant data needed to make conclusions.		