



Alignment Document
State of Hawaii and Aventa Learning Consumer Math

Consumer Math
2005-2007 Benchmark Blueprint

Strand	Standard	Topic	Benchmark	Unit Name	Course Topic Description
Numbers and Operations	AI.1 Understand numbers, ways of representing numbers, relationships among numbers, and number systems	Numbers and Number Systems	MA.AI.1.1 Recognize situations that can be represented by matrices		
Numbers and Operations	AI.2 Understand the meaning of operations and how they relate to each other		There are no benchmarks for this standard for this Grade/Course		



Numbers and Operations	AI.3 Use computational tools and strategies fluently and, when appropriate, use estimation	Computational Fluency	<p>MA.AI.3.1 Apply arithmetic properties to operate on and simplify expressions that include radicals and other real numbers</p> <p>MA.AI.3.2 Apply the laws of exponents to perform operations on expressions with integral exponents</p> <p>MA.AI.3.3 Use addition, subtraction, and scalar multiplication of matrices to solve problems</p>	<p>Wages</p> <p>All about jobs</p> <p>All about jobs</p> <p>All about jobs</p> <p>All about jobs</p> <p>Checking and Savings Accounts</p> <p>Checking and Savings Accounts</p> <p>Checking and Savings Accounts</p>	<p>Evaluating Expressions and Formulas</p> <p>Decimal Review</p> <p>Percent Review</p> <p>Percent to Decimals and Fractions</p> <p>Order of Operations</p> <p>Working with exponential equations</p> <p>Exponential Graphs</p> <p>Plotting a Decay Curve</p>
Measurement	AI.4 Understand attributes, units, and systems of units in measurement; and develop and use techniques, tools, and formulas for measuring	Measurement Formulas	MA.AI.4.1 Use formulas, functions, or conversion equations to solve problems dealing with determining a measurement based on another derived or given measurement	<p>Housing</p> <p>Housing</p>	<p>Decorating and Remodeling</p> <p>Scale Drawings</p>
Geometry and Spatial Sense	AI.5 Analyze properties of objects and relationships among the properties		There are no benchmarks for this standard for this Grade/Course.		
Geometry and Spatial Sense	AI.6 Use transformations and symmetry to analyze mathematical situations		There are no benchmarks for this standard for this Grade/Course.		



Geometry and Spatial Sense	AI.7 Use visualization and spatial reasoning to solve problems both within and outside of mathematics		There are no benchmarks for this standard for this Grade/Course.		
Geometry and Spatial Sense	AI.8 Select and use different representational systems, including coordinate geometry	Coordinate Geometry	<p>MA.AI.8.1 Graph linear equations using slope-intercept, point-slope, and x- and y-intercept techniques</p> <p>MA.AI.8.2 Determine the slope of a line when given the graph of a line, two points on the line, or the equation of the line</p>	<p>Checking and Savings Accounts</p> <p>Checking and Savings Accounts</p> <p>Personal Finances</p> <p>Personal Finances</p> <p>Personal Finances</p> <p>Personal Finances</p> <p>Personal Finances</p> <p>Personal Finances</p>	<p>Plotting a Decay Curve</p> <p>Graphing Exponential Equations</p> <p>Graphing Using Slope and Y-Intercept</p> <p>Graphing an Equation Using Points</p> <p>Writing Linear Equations</p> <p>Graphing Using Slope and Y-Intercept</p> <p>Graphing an Equation Using Points</p>

			<p>MA.AI.10.4 Determine the equation of a line when given the graph of the line, the slope and a point on the line, or two points on the line</p> <p>MA.AI.10.5 Solve systems of two linear equations in two variables algebraically and graphically</p> <p>MA.AI.10.6 Factor first- and second-degree binomials and trinomials in one or two variables</p> <p>MA.AI.10.7 Solve quadratic equations in one variable algebraically, graphically, or by using graphing technology</p> <p>MA.AI.10.8 Select and use a variety of strategies (e.g., concrete objects, pictorial representations, algebraic manipulation) to perform operations on polynomials</p> <p>MA.AI.10.9 Analyze transformations of lines and understand how the transformation are represented in equations</p>	<p>Personal Finances</p> <p>Personal Finances</p> <p>Personal Finances</p> <p>Automobile Expenses</p>	<p>Graphing an Equation Using Points</p> <p>Graphing Using Slope and Y-Intercept</p> <p>Graphs of Equations</p> <p>Comparing Costs</p>
Data Analysis, Statistics, and Probability	AI.11 Pose questions and collect, organize, and represent data to answer those questions		There are no benchmarks for this standard for this Grade/Course.		
Data Analysis, Statistics, and Probability	AI.12 Interpret data using methods of exploratory data analysis	Data Interpretation	MA.AI.12.1 Compare data sets using statistical techniques (e.g., measures of central tendency, standard deviation, range, stem-and-leaf plots, and box-and-whisker graphs)	<p>Automobile Expenses</p> <p>Deduction, Taxes and Insurance</p>	<p>Comparing Costs</p> <p>Mean, Median and Mode</p>



			MA.AI.12.2 Display bivariate data in a scatter plot, describe its shape, and determine the line of best fit that models a trend (if a trend exists)		
Data Analysis, Statistics, and Probability	AI.13 Develop and evaluate inferences, predictions, and arguments that are based on data		There are no benchmarks for this standard for this Grade/Course.		
Data Analysis, Statistics, and Probability	AI.14 Understand and apply basic notions of chance and probability		There are no benchmarks for this standard for this Grade/Course.		