



Alignment Document

State of Connecticut And Aventa Learning Consumer Math

Consumer Math 2005-2007 Benchmark Blueprint

State Standard Number	State Standard Area / Description	Unit Name	Course Topic Description
1	Patterns and functional relationships can be represented and analyzed using a variety of strategies, tools and technologies.		
1.1	Understand and describe patterns and functional relationships.		
1.1.a	Describe relationships and make generalizations about patterns and functions.	Checking and Savings Accounts	Exponential Equations
1.2	Represent and analyze quantitative relationships in a variety of ways.	Personal Finances	Net Worth and Purchasing Power
		Personal Finances	Writing Linear Equations
1.2.a	Represent and analyze linear and nonlinear functions and relations symbolically and with tables and graphs.	Checking and Savings Accounts	Plotting a Decay Curve
		Checking and Savings Accounts	Exponential Equations
		Checking and Savings Accounts	Graphing Exponential Equations
		Checking and Savings Accounts	Exponential Graphs
		Personal Finances	Graphing Using Slope and Y-Intercept
		Personal Finances	Graphing an Equation Using Points
		Personal Finances	Graphs of Equations
		Personal Finances	Writing Equations Using Points

1.3	Use operations, properties and algebraic symbols to determine equivalence and solve problems.	Housing	Buying a House
		Credit	Finding APR
		Transportation	Distance
		Wages	Solving Equations: Multiplication and Division
		Wages	Evaluating Expressions and Formulas
		Wages	Solving Equations: Addition and Subtraction
		Personal Finance	Writing Linear Equations
1.3.a	Manipulate equations, inequalities and functions to solve problems.	Personal Finances	The Costs of Raising a Family
		Personal Finance	Graphs of Equations
		Personal Finance	Writing Linear Equations
		Wages	Evaluating Expressions and Formulas
		Wages	Solving Equations: Multiplication and Division
		Wages	Commission
		Wages	Solving Equations: Addition and Subtraction
		Wages	Salary and Commission
		Wages	Solving Two-Step Equations
		Checking and Savings Accounts	Exponential Equations
2	Quantitative relationships can be expressed numerically in multiple ways in order to make connections and simplify calculations using a variety of strategies, tools and technologies.		
2.1	Understand that a variety of numerical representations can be used to describe quantitative relationships.		
2.1.a	Extend the understanding of number to include integers, rational numbers and real numbers.		
2.1.b	Interpret and represent large sets of numbers with the aid of technologies.		
2.2	Use numbers and their properties to compute flexibly and fluently, and to reasonably estimate measures and quantities.	Transportation	Estimating Using Mileage Charts

2.2.a	Develop strategies for computation and estimation using properties of number systems to solve problems.	Recreation and Spending	Movies and Shows
		Recreation and Spending	Costs of Recreation
		Recreation and Spending	Eating Out
		Recreation and Spending	Parks and Sports
		Recreation and Spending	Buying Clothes
		Transportation	Estimating Using Mileage Charts
		Transportation	Taking a Road Trip
2.2.b	Solve proportional reasoning problems.	Housing	Scale Drawings
3	Shapes and structures can be analyzed, visualized, measured and transformed using a variety of strategies, tools and technologies.		
3.1	Use properties and characteristics of two- and three-dimensional shapes and geometric theorems to describe relationships, communicate ideas and solve problems.	Deductions, Taxes, and Insurance	Tables and Graphs
3.1.a	Investigate relationships among plane and solid geometric figures using geometric models, constructions and tools.		
3.1.b	Develop and evaluate mathematical arguments using reasoning and proof.		
3.2	Use spatial reasoning, location and geometric relationships to solve problems.		
3.2.a	Verify geometric relationships using algebra, coordinate geometry, and transformations.		
3.3	Develop and apply units, systems, formulas and appropriate tools to estimate and measure.		

4	Data can be analyzed to make informed decisions using a variety of strategies, tools and technologies.		
4.1	Collect, organize and display data using appropriate statistical and graphical methods	Deductions, Taxes, and Insurance	Tables and Graphs
		Recreation and Spending	Catalog Shopping
		Personal Finances	Budgets
4.1.a	Create the appropriate visual or graphical representation of real data.	Deductions, Taxes, and Insurance	Tables and Graphs
4.2	Analyze data sets to form hypotheses and make predictions.	Recreation and Spending	Movies and Shows
		Automobile Expenses	Operating Expenses
4.2.a	Analyze real- world problems using statistical techniques.	Checking and Savings Accounts	Checking Accounts
		Checking and Savings Accounts	Savings Accounts
		Checking and Savings Accounts	The Check Register
		Transportation	Distance
		Personal Finance	Budgeting
		Automobile Expenses	Used Cars
		Automobile Expenses	Auto Loans
4.3	Understand and apply basic concepts of probability.	Deductions, Taxes, and Insurance	Mean, Median, Mode
4.3.a	Understand and apply the principles of probability in a variety of situations.		