



Consumer Math

State Standard Number	State Standard Area/Description	Unit Name	Course Topic Description
A	Students will develop their ability to solve problems by engaging in developmentally appropriate opportunities where there is a need to use various approaches to investigate and understand mathematical concepts in order to:		
0	Generalize solutions and apply previous knowledge to new problem solving situations		
0	Determine an efficient strategy, verify, interpret, and evaluate the results with respect to the original problem	Recreation and Spending	Movies and Shows
			Costs of Recreation
			Parks and Sports
			Eating Out
		Transportation	Taking a Road Trip
0	Apply problem solving strategies until a solution is found or it is clear that no solution exists	Recreation and Spending	Costs of Recreation
			Parks and Sports
			Movies and Shows
			Eating Out
		Transportation	Taking a Road Trip
0	Interpret and solve a variety of mathematical problems by paraphrasing	Recreation and Spending	Movies and Shows
			Costs of Recreation
			Eating Out
			Parks and Sports
		Transportation	Taking a Road Trip
0	Identify necessary and extraneous information		
0	Check the reasonableness of a solution		
0	Apply technology as a tool in problem solving situations		
0	Apply combinations of proven strategies and previous knowledge to solve non-routine problems	Recreation and Spending	Eating Out
			Costs of Recreation
			Parks and Sports
			Movies and Shows
		Transportation	Taking a Road Trip
			Buses, Trains, Subways, and Taxis
B	Students will develop their ability to communicate mathematically by solving problems where there is a need to obtain information from the real world through reading, listening, and observing in order to:		
0	Use a variety of techniques to solve mathematical problems	Recreation and Spending	Movies and Shows
			Eating Out
			Costs of Recreation
			Parks and Sports



Consumer Math

State Standard Number	State Standard Area/Description	Unit Name	Course Topic Description
		Transportation	Taking a Road Trip
0	Evaluate written and oral presentations in mathematics.		
0	Model and explain mathematical relationships using oral, written, graphic, and algebraic methods		
0	Communicate and evaluate mathematical thinking based on the use of definitions, properties, rules, and symbols in problem solving		
0	Use everyday language, both orally and in writing, communicate strategies and solutions to problems using appropriate mathematical language		
C	Students will develop their ability to reason mathematically by solving problems where there is a need to investigate mathematical ideas and construct their own learning in all content areas in order to:		
0	Recognize and apply deductive and inductive reasoning		
0	Review and refine the assumptions and steps used to derive conclusions in mathematical arguments		
0	Make and test conjectures about algebraic and geometric properties based on mathematical principles		
0	Justify the validity of an argument		
0	Construct a valid argument		
D	Students will develop the ability to make mathematical connections by solving problems where there is a need to view mathematics as an integrated whole in order to:		
0	Use mathematical ideas from one area of mathematics to explain an idea from another area of mathematics		
0	Explain the relationship between concepts and procedures		
0	Use the connections among mathematical topics to develop multiple approaches to problems	Recreation and Spending	Movies and Shows
			Eating Out
			Parks and Sports
			Costs of Recreation
		Transportation	Taking a Road Trip
0	Apply mathematical thinking and modeling to solve problems that arise in other disciplines, such as rhythm in music and motion in science		
0	Identify, explain, and apply mathematics in everyday life	Checking and Savings Accounts	Savings Accounts
0	Identify, explain, and apply mathematics in everyday life	Checking and Savings Accounts	The Check Register
0	Identify, explain, and apply mathematics in everyday life	Checking and Savings Accounts	Checking Accounts
0	Identify, explain, and apply mathematics in everyday life	Automobile Expenses	Used Cars
0	Identify, explain, and apply mathematics in everyday life	All About Jobs	Working with Wages



Consumer Math

State Standard Number	State Standard Area/Description	Unit Name	Course Topic Description
			Computing Pay by Hourly Wage
			Wages and Tips
		Wages	Time Sheets and Time Cards
			Salary and Commission
		Deductions, Taxes, and Insurance	Payroll Deductions
			FICA Deductions
			Life Insurance
			Health and Life Insurance
		Transportation	Busses, Trains, Subways, and Taxis
		Housing	Renting an Apartment
		Automobile Expenses	Buying a New Automobile
		Credit	Using Credit Cards
			Credit Finance Charges
		Checking Accounts	Savings Accounts
1.0	Students will accurately calculate and use estimation techniques, number relationships, operation rules, and algorithms; they will determine the reasonableness of answers and the accuracy of solutions to solve problems, communicate, reason, and make connections within and beyond the field of mathematics.		
0	Place Value		
0	Nevada has no content for this theme.		
0	Fractions		
0	Nevada has no content for this theme.		
0	Comparing and Ordering		
0	Nevada has no content for this theme.		
0	Counting		
0	Nevada has no content for this theme.		
0	Facts		
0	Nevada has no content for this theme.		
1.12.6	Estimating and Estimation Strategies		
1.12.6.1	Determine an approximate value of radical and exponential expressions using a variety of methods.	Checking and Savings Accounts	Exponential Graphs
			Exponential Equations
			Plotting a Decay Curve
1.12.7	Computation		
1.12.7.1	Solve mathematical problems involving exponents and roots.		
1.12.7.2	Perform addition, subtraction, and scalar multiplication		



Consumer Math

State Standard Number	State Standard Area/Description	Unit Name	Course Topic Description
	on matrices.		
1.12.8	Solving Problems and Number Theory		
1.12.8.1	Identify and apply real number properties to solve problems.		
2.0	Students will use various algebraic methods to analyze, illustrate, extend, and create numerous representations (words, numbers, tables, and graphs) of patterns, functions, and algebraic relations as modeled in practical situations to solve problems, communicate, reason, and make connections within and beyond the field of mathematics.		
2.12.1	Patterns		
2.12.1.1	Use algebraic expressions to identify and describe the nth term of a sequence.	Wages	Review of Equations Evaluating Expressions and Formulas
2.12.2	Variables and Unknowns		
2.12.2.1	Isolate any variable in given equations, inequalities, proportions, and formulas to use in mathematical and practical situations.	Transportation	Busses, Trains, Subways, and Taxis
			Estimating Using Mileage Charts
			Distance
		Recreation and Spending	Buying Clothes and Shopping
			Eating Out
			Buying Clothes
		Wages	Commission
			Solving Equations: Addition and Subtraction
			Salary and Commission
			Evaluating Expressions and Formulas
			Time Sheets And Time Cards
		Housing	Solving Two-Step Equations
			Solving Equations: Multiplication and Division
Taxes and Insurance			
Checking and Savings Accounts	Scale Drawings		
	Homeowner's Insurance		
Deductions, Taxes,	Exponential Equations		
	Federal Income Tax		

Consumer Math

State Standard Number	State Standard Area/Description	Unit Name	Course Topic Description
		and Insurance	Health and Life Insurance Payroll Deductions
		Personal Finances	The Costs of Raising a Family Purchasing Power
2.12.3	Number Sentences, Expressions, and Polynomials		
2.12.3.1	Add, subtract, multiply, and factor 1st and 2nd degree polynomials connecting the arithmetic and algebraic processes.		
2.12.3.2	Simplify algebraic expressions, including exponents and radicals.	Wages	Evaluating Expressions and Formulas
2.12.4	Relations and Functions		
2.12.4.1	Determine the domain and range of functions, including linear, quadratic, and absolute value, algebraically and graphically.	Checking and Savings Accounts	Graphing Exponential Equations Exponential Graphs Plotting a Decay Curve
		Personal Finances	Graphing Using Slope and Y-Intercept
2.12.4.2	Solve absolute value equations and inequalities both algebraically and graphically.	Personal Finances	Graphing Using Slope and Y-Intercept Graphing an Equation Using Points The Costs of Raising a Family
		Wages	Solving Two-Step Equations Solving Equations: Multiplication and Division Commission Solving Equations: Addition and Subtraction Salary and Commission
		Checking and Savings Accounts	Plotting a Decay Curve Exponential Equations Graphing Exponential Equations
2.12.5	Linear Equations and Inequalities		
2.12.5.1	Solve systems of two linear equations algebraically and graphically and verify solutions (with and without technology).	Automobile Expenses	Comparing Costs
2.12.6	Algebraic Representations and Applications		
2.12.6.1	Solve mathematical and practical problems involving linear and quadratic equations with a variety of methods,	Recreation and Spending	Costs of Recreation Parks and Sports

Consumer Math

State Standard Number	State Standard Area/Description	Unit Name	Course Topic Description
	including discrete methods (with and without technology).		Movies and Shows
			Eating Out
		Personal Finances	The Costs of Raising a Family
		Wages	Solving Equations: Addition and Subtraction
		Transportation	Taking a Road Trip
3.0	Students will use appropriate tools and techniques of measurement to determine, estimate, record, and verify direct and indirect measurements to solve problems, communicate, reason, and make connections within and beyond the field of mathematics.		
3.12.1	Comparison, Estimation, and Conversion		
3.12.1.1	Estimate and convert between customary and metric systems.		
3.12.2	Precision in Measurements		
3.12.2.1	Justify, communicate, and differentiate between precision, error, and tolerance in practical problems.		
3.12.3	Formulas		
3.12.3.1	Select and use appropriate measurement tools, techniques, and formulas to solve problems in mathematical and practical situations.	Deductions, Taxes, and Insurance	Federal Income Tax
			Health and Life Insurance
			Payroll Deductions
			Federal Tax Table
		Wages	Time Sheets And Time Cards
			Evaluating Expressions and Formulas
		All about jobs	Computing Pay by Hourly Wages
			Wages and Tips
		Recreation and Spending	Buying Clothes
			Buying Clothes and Shopping
		Housing	Homeowner's Insurance
			Taxes and Insurance
Renting an Apartment			
3.12.4	Money		
3.12.4.1	Interpret and apply consumer data presented in charts, tables, and graphs to make informed financial decisions related to practical applications.	All about jobs	Wages and Tips
			Working with Wages
			Computing Pay by Hourly Wages
		Checking and Savings	Savings Accounts

Consumer Math

State Standard Number	State Standard Area/Description	Unit Name	Course Topic Description
		Accounts	The Check Register Checking Accounts
		Transportation	Estimating Using Mileage Charts Busses, Trains, Subways, and Taxis
		Recreation and Spending	Costs of Recreation Movies and Shows Parks and Sports Eating Out Catalog Shopping
		Wages	Commission Division of Fractions Salary and Commission Multiplication of Fractions Time Sheets And Time Cards Review of Fractions Forms and Time Cards
		Housing	Taxes and Insurance The Mortgage Buying a House Renting an Apartment Decorating and Remodeling
		Automobile Expenses	Preventative Maintenance and Repairs Used Cars Buying a New Automobile
		Personal Finances	The Costs of Raising a Family Net Worth and Purchasing Power Budgeting Expenses
		Deductions, Taxes, and Insurance	Life Insurance Payroll Deductions
3.12.5	Ratios and Proportions		
3.12.5.1	Determine the measure of unknown dimensions, angles, areas, and volumes using relationships and formulas to solve problems.	Housing	Scale Drawings Decorating and Remodeling



Consumer Math

State Standard Number	State Standard Area/Description	Unit Name	Course Topic Description
0	Time		
0	Nevada has no content for this theme.		
5.0	Students will collect, organize, display, interpret, and analyze data to determine statistical relationships and probability projections to solve problems, communicate, reason, and make connections within and beyond the field of mathematics.		
5.12.1	Data Collection and Organization		
5.12.1.1	Organize statistical data through the use of tables, graphs, and matrices (with and without technology).	Deductions, Taxes, and Insurance	Life Insurance
		Recreation and Spending	Movies and Shows
		Deductions, Taxes, and Insurance	Tables and Graphs
5.12.2	Central Tendency and Data Distribution		
5.12.2.1	Select and apply appropriate statistical measures in mathematical and practical situations.	Deductions, Taxes, and Insurance	Mean, Median, Mode
5.12.3	Interpretation of Data		
5.12.3.1	Distinguish between a sample and a census.		
5.12.3.2	Identify sources of bias and their effect on data representations and statistical conclusions.		
5.12.3.3	Use the shape of a normal distribution to compare and analyze data from a sample.	Automobile Expenses	Comparing Costs
5.12.4	Permutations and Combinations		
5.12.4.1	Apply permutations and combinations to mathematical and practical situations, including the Fundamental Counting Principle.		
5.12.5	Experimental and Theoretical Probability		
5.12.5.1	Determine the probability of an event with and without replacement using sample spaces.		
5.12.5.2	Design, conduct, analyze, and effectively communicate the results of multi-stage probability experiments.		
5.12.6	Statistical Inferences		
5.12.6.1	Design, construct, analyze, and select an appropriate type of graphical representations to communicate the results of a statistical experiment.		
5.12.6.2	Formulate and justify inferences based on a valid data sample.		