

Consumer Math

State Standard Number	State Standard Area/Description	Unit Name	Course Topic Description
0	Financial Literacy		
MA.912.F.1	Simple and Compound Interest		
MA.912.F.1.1	Explain the difference between simple and compound interest.	Checking and Savings Accounts	Savings Accounts
MA.912.F.1.2	Solve problems involving compound interest.	Checking and Savings Accounts	Savings Accounts
MA.912.F.1.3	Demonstrate the relationship between simple interest and linear growth.	Checking and Savings Accounts	Savings Accounts
MA.912.F.1.4	Demonstrate the relationship between compound interest and exponential growth.	Checking and Savings Accounts	Savings Accounts
MA.912.F.2	Net Present and Net Future Value (NPV and NFV)		
MA.912.F.2.1	Calculate the future value of a given amount of money, with and without technology.	Checking and Savings Accounts	Savings Accounts Checking Accounts
MA.912.F.2.2	Calculate the present value of a certain amount of money for a given length of time in the future, with and without technology.	Checking and Savings Accounts	Savings Accounts Checking Accounts
MA.912.F.2.3	Use a consumer price index to express dollars in constant terms, with and without technology.	Checking and Savings Accounts	Savings Accounts Checking Accounts
MA.912.F.2.4	Calculate the present value of an income stream, with and without technology.	Checking and Savings Accounts	Savings Accounts Checking Accounts

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MA.912.F.3	Become familiar with and describe the advantages and disadvantages of short-term purchases, long-term purchases, and mortgages.		
MA.912.F.3.1	Compare the advantages and disadvantages of using cash versus a credit card.	Credit	Using Credit Cards
MA.912.F.3.2	Analyze credit scores and reports.	Credit	Thinking About Credit
MA.912.F.3.3	Calculate the finance charges and total amount due on a credit card bill.	Credit	Using Credit Cards
MA.912.F.3.4	Compare the advantages and disadvantages of deferred payments.	Credit	Installment Buying
MA.912.F.3.5	Calculate deferred payments.	Credit	Installment Buying
MA.912.F.3.6	Calculate total cost of purchasing consumer durables over time given different down payments, financing options, and fees.	Credit	Installment Buying

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MA.912.F.3.7	Calculate the following fees associated with a mortgage:	Housing	Buying a House
MA.912.F.3.7.a	discount points	Housing	Buying a House
MA.912.F.3.7.b	origination fee	Housing	Buying a House
MA.912.F.3.7.c	maximum brokerage fee on a net or gross loan	Housing	Buying a House
MA.912.F.3.7.d	documentary stamps	Housing	Buying a House
MA.912.F.3.7.e	prorated expenses (interest, county and/or city property taxes, and mortgage on an assumed mortgage)	Housing	Buying a House
MA.912.F.3.8	Substitute to solve a variety of mortgage formulas, including but not limited to Front End Ratio, Total Debt-to-Income Ratio, Loan-to-Value Ratio (LTV), Combined Loan-to-Value Ratio (CLTV), and Amount of Interest Paid Over the Life of a Loan.	Housing	Buying a House
MA.912.F.3.9	Calculate the total amount to be paid over the life of a fixed rate loan.	Housing	Buying a House

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MA.912.F.3.10	Calculate the effects on the monthly payment in the change of interest rate based on an adjustable rate mortgage.	Housing	Buying a House
MA.912.F.3.11	Calculate the final pay out amount for a balloon mortgage.	Housing	Buying a House
MA.912.F.3.12	Compare the cost of paying a higher interest rate and lower points versus a lower interest rate and more points.	Housing	Buying a House
MA.912.F.3.13	Calculate the total amount paid for the life of a loan for a house including the down payment, points, fees, and interest.	Housing	Buying a House
MA.912.F.3.14	Compare the total cost for a set purchase price using a fixed rate, adjustable rate, and a balloon mortgage.	Housing	Buying a House
MA.912.F.3.15	Interpret the legal description using the metes and bounds; lot and block (plat); government survey; and monument methods.	Housing	Buying a House
MA.912.F.3.16	Estimate real property value using the sales comparison approach, cost-depreciation approach, or the income capitalization approach.	Housing	Buying a House
MA.912.F.3.17	Compare interest rate calculations and annual percentage rate calculations to distinguish between the two rates.	Housing	Buying a House

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MA.912.F.4	Individual Financial and Investment Planning		
MA.912.F.4.1	Develop personal budgets that fit within various income brackets.	Personal Finances	Budgets
MA.912.F.4.2	Explain cash management strategies including debit accounts, checking accounts, and savings accounts.	Checking and Savings Accounts	Checking Accounts Savings Accounts
MA.912.F.4.3	Calculate net worth.	Personal Finances	Net Worth and Purchasing Power
MA.912.F.4.4	Establish a plan to pay off debt.	Personal Finances	Budgets
MA.912.F.4.5	Develop and apply a variety of strategies to use tax tables, determine, calculate, and complete yearly federal income tax.	Deductions, Taxes and Insurance	Federal Income Tax
MA.912.F.4.6	Compare different insurance options and fees.	Deductions, Taxes and Insurance	Health and Life Insurance
MA.912.F.4.7	Compare and contrast the role of insurance as a device to mitigate risk and calculate expenses of various options.	Deductions, Taxes and Insurance	Health and Life Insurance

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MA.912.F.4.8	Collect, organize, and interpret data to determine an effective retirement savings plan to meet personal financial goals.	Personal Finances	Investments
MA.912.F.4.9	Calculate, compare, and contrast different types of retirement plans, including IRAs, ROTH accounts, and annuities.	Personal Finances	Investments
MA.912.F.4.10	Analyze diversification in investments.	Personal Finances	Investments
MA.912.F.4.11	Purchase stock with a set amount of money and follow the process through gains, losses, and selling.	Personal Finances	Investments
MA.912.F.4.12	Compare and contrast income from purchase of common stock, preferred stock, and bonds.	Personal Finances	Investments
MA.912.F.4.13	Given current exchange rates be able to convert from one form of currency to another.	Personal Finances	Investments
MA.912.F.4.14	Use data to compare historical rates of return on investments with investment claims to make informed decisions and identify potential fraud.	Personal Finances	Investments
MA.912.F.5	Economic Concepts		



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MA.912.F.5.1	Demonstrate how price and quantity demanded relate, how price and quantity supplied relate, and how price changes or price controls affect distribution and allocation in the economy.	Housing	Buying a House
MA.912.F.5.2	Use basic terms and indicators associated with levels of economic performance and the state of the economy.	Housing	Buying a House