

Consumer Math CP Unit 2: The Stock Market

 Unit #:
 APSDO-00020122
 Duration:
 4.0 Week(s)
 Date(s):

Team:

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Grades: 11, 12 **Subjects:**

Mathematics

Unit Focus

In this unit students will be able to analyze and understand properties of the stock market to make decisions regarding buying and selling stocks. Students will also be able to perform calculations regarding cost, revenue, gain, tax on gain, loss, return on investment, dividends, fees, and price to earnings ratios pertaining to stocks. Students will follow an actual stock over the course of a week to calculate a simulated investment. Summative assessments may include projects, labs and tests.

Stage 1: Desired Results - Key Understandings

Established Goals	Transfer		
Common Core Mathematics: 12 Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions. CCSS.MATH.CONTENT.HSA.CED.A.1	 T1 (T50) Based on an understanding of any problem, initiate a plan, execute it and evaluate the reasonableness of the solution. T2 (T53) Articulate how mathematical concepts relate to one another in the context of a problem or in the theoretical sense. T3 (T51) Examine alternate methods to accurately and efficiently solve problems. T4 (T52) Use appropriate tools strategically to deepen understanding of mathematical concepts. T5 (T11) Use descriptions to clarify and/or solve problems. 		
 Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method. 	Meaning		
	Understandings	Essential Questions	
	U1 (U521) Evaluating arguments creates clarity about a problem, its model, and the viability of a solution.	Q1 (Q520) Does the argument/thought process/logic make sense? Q2 (Q563) How does being fluent with basic	

CCSS.MATH.CONTENT.HSA.REI.A.1

- Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays. CCSS.MATH.CONTENT.HSN.Q.A.1
- Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales. CCSS.MATH.CONTENT.HSA.CED.A.2
- Define appropriate quantities for the purpose of descriptive modeling. CCSS.MATH.CONTENT.HSN.Q.A.2
- Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.
 CCSS.MATH.CONTENT.HSN.Q.A.3
- Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters. CCSS.MATH.CONTENT.HSA.REI.B.3
- Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. CCSS.MATH.CONTENT.HSA.CED.A.4
- Construct viable arguments and critique the reasoning of others. CCSS.MATH.MP.3
- Look for and make use of structure. *CCSS.MATH.MP.7*

U2 (U562) Mastery of basic facts and rules maximizes conceptual and procedural fluency.

U3 (U562) Mastery of basic facts and rules maximizes conceptual and procedural fluency.

U4 (U106) A limited set of symbols can be used to represent numerical descriptions and relationships.

facts and rules help me solve a complex problem?

Q3 (Q561) How does understanding the pattern/structure help me solve the problem? Q4 (Q102) What rule do I know OR what pattern can I recognize to help me make a prediction/solve this problem?

Acquisition of Knowledge and Skill

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Knowledge	Skills	
	S1	
	Understand vocabulary involving stocks, stock exchanges, and investment	
	S2	
	Calculate cost, revenue, gain, tax on gain, loss, return on investment, dividends, fees, and price to earnings ratios pertaining to stocks	
	S3	
	Analyze the properties of investments to make informed decisions about buying and selling stocks	
	S4	
	Analyze the historical patterns of stocks to make assumptions about future trends	
	S5	
	Find and use applications that support analyzing stock market properties and calculations of related vocabulary	

Stage 3: Learning Plan		
Coding	Code	Description of Learning Activity