

## Stock Market Fun

**WebQuest Description:** With students entering the real world after high school where investing and saving is essential for financial success, how can we learn about good saving and investment habits now? What can we do to make sure we have money saved and we are in a good financial position as we get older? How can we help ourselves now?

**Grade Level:** 9-12

**Curriculum:** Math

**Keywords:** stock market, statistics, math, investing, exponential growth

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### Introduction

The goal of this project is for you to become a stock broker and learn about the stock market by investing your money (fake money) into certain stocks that you think will be good investments based on your research! You will be given \$1000 worth of fake money to invest in whatever 10 stocks you like best and then you will get to track the trends of what you bought and buy and sell as much or as little as you want. Your goal will be to make the most amount of money with any 10 stocks you feel are the best investments. You will provide statistical evidence on each stock that you buy or sell and explain your reasoning behind the decision that you made. You want to become the wealthiest student in the class based off the current and real stock market.&nbsp;

### Tasks

Your task will be to use the data from the stock market to decide where to invest money to build a successful portfolio over a 3-month period. You will use this platform where you will be able to actively see the stock market in real time.

### Process

**Task 1: Picking Their Stocks** Task 1 will be to research and decide which stocks will provide you with the best growth over the course of 3 months. The research done will consist of things such as high risk vs. low risk. Students will assess different stocks and read about world issues that may affect the stock in a positive or negative way. Students will provide rationale for each stock they invest in using mathematical terminology to defend their stance. **Task 2: Calculating Their Returns** The 2nd task will be towards the end of the 3 months, where they will take the stocks that they have "invested" in and research how much money they would make off the stocks if they invested in them for the next 10 years, 20 years, and 50 years. They would use the information, gains, losses, dividend price, etc. at that exact moment to calculate this information. So, if their stock was returning 6% with a \$2.00 dividend yield per share, they would research how to calculate their growth throughout those time periods and create a report on each stock they invested in and where their returns would be for each of the 3 time-periods. **Task 3: Presentation** From your findings, research, and mathematics in task 2, you will present to the class a 3-5-minute presentation sharing which stocks you invested in and why. You will then share what your returns would have been after 10 years, 20 years and 50 years and if you recommend investing in these stocks or not.

### Evaluation

You will be evaluated on both tasks. You will get a grade for the written work as well as the oral presentation. The rubric is as follows:  
**108642Grade**  
**Task 1: Picking Their Stocks**  
Great rationale and defense of the stocks they invested in. Each company/stock was labeled with name and ticker symbol.  
Good rationale and defense of the stocks they invested in. Some company/stock was labeled with name and ticker symbol.  
Okay rationale and defense of the stocks they invested in. Some company/stock was labeled with name and ticker symbol.  
Weak rationale and defense of the stocks they invested in. Some or few company/stock was labeled with name and ticker symbol.  
Very weak or no rationale and defense of the stocks they invested in. Few or none of the company/stock was labeled and no ticker symbols  
**Task 2: Calculating Their Returns**  
Great reports on each stock/company invested in with results for 10, 20, and 50 year periods.  
Good reports on each stock/company invested in with results for 10, 20, and 50 year periods  
Okay reports on some stock/company invested in with results for 10, 20, and 50 year periods.  
Weak reports on some stock/company invested in with results for some of the time periods.  
Very weak reports on few stock/company invested in with some to no results on different time periods  
**Task 3: Presentation**  
3-5 minute speech with returns for each stock for each time period and recommendation on all stocks.  
3-5 minute speech with some returns for each stock for each time period and recommendation on all stocks.  
3-5 minute speech with some returns for some stocks for some time periods and recommendation on some stocks.  
Less than 3-5 minute speech with some returns for some stocks for some time periods and some recommendations.  
Less than 3-5 minute speech with few returns for few stocks with few recommendations. /30

Category and Score					Score
				Total Score	

## Conclusion

The students were to have accomplished the tasks of assessing the stock market and different companies within the stock market to make an informed decision on which ones would be best for investing in. They had to make decisions based on many factors and decide which stocks, based on their history, charts, etc., would provide positive returns for them overall. The goal was to have students get a better understanding of real world investing and how quickly money can be gained or lost. Students should consider all of the information and research they found and use it to open their mind up to the real world. One of the main reasons for this assignment was for students to understand how math is applied in the real world, and why it is important to be able to utilize different types of math.

## Teacher Page

This web quest would take a long period of time throughout the semester. It is not something that has to be discussed every day in class, but maybe twice a week. Make sure you are familiar with the stock market before assigning this to students!

### Standards

• CCSS.MATH.CONTENT.HSS.ID.A.1 : Represent data with plots on the real number line (dot plots, histograms, and box plots)  
 • CCSS.MATH.CONTENT.HSS.ID.B.5 Summarize categorical data for two categories in two-way frequency tables. Interpret relative frequencies in the context of the data (including joint, marginal, and conditional relative frequencies). Recognize possible associations and trends in the data. • CCSS.MATH.CONTENT.HSS.ID.B.6 Represent data on two quantitative variables on a scatter plot and describe how the variables are related.

### Credits

<http://www.themint.org/teens/investing.html> <https://investorplace.com/2018/02/10-high-risk-high-reward-stocks-buy-market-shudders/#.WpOvm6inHIU> <https://www.fool.com/investing/2017/10/21/3-great-stocks-for-low-risk-investors-3.aspx>  
<https://investorplace.com/2018/01/10-super-safe-growth-stocks-to-buy-for-long-lasting-dividends/#.WpOv4KinHIU>  
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### Other