THE EDUCATION FUND
FOR EXCELLENCE IN MIAMI-DADE PUBLIC SCHOOLS
2019-2020

Ideas with IMPACT

idea packet

sponsored by:

TD Bank
America's Most Convenient Bank®

Stocks Anytime, Anywhere

BOYD Anybody Anytime Stock Market for Beginners

Theresa Borges

tborges@dadeschools.net

American Sr. High

School Mail Code: 7011

For information concerning Ideas with IMPACT opportunities including Adapter and Disseminator grants, please contact

Audrey Onyeike, Program Director
Ideas with IMPACT, The Education Fund
305-558-4544 Ext.113
Email: audrey@educationfund.org
www.education fund.org

Table of Contents

Goals and Objectives	1
Florida Standards	2
MDCPS Pacing Guide for Stock Market	3
Less Plan and step by step Guide for Implementation	4
Directions for Students	5
Resources	6-7
Photos	8-21
Sample Projects	22-47

Goals and Objectives

As an educator, I want the lesson to be realistic and current. Teaching about stock X,Y and Z from the textbook is very boring to the students. They are curious and would like to know the basics of investing. There are many formulas in the textbook so this project can be made more simplistic or more advanced. I focused on letting the students pick 10 stocks, track them for two weeks and do some basic computations. They had to compute net change for each day and at the end of two weeks compute percent of increase or decrease. After their research, they had to declare if they would or would not buy a particular stock. Much to our surprise, they learned how disasters of sorts caused they stock market or certain companies to have their stock take a dip de to current events.

After they learned what the Dow Jones was, what does Boeing do, what is a Max 8 aircraft and how many crashed with no survivors, they saw the impact in the market. It was a teachable moment as so many students were shocked that their peers did not follow global, national, regional, or local news. They only followed their own social media. This was a goal as well, to make the students aware that a company can fail for many reasons. It can be mother nature, a disaster, a political event and not just bad management. They also realized there is more going on then just their own social media.

They became engaged with each other other teachers and their parents during this project. They asked everyone who had what stock and if they were successful and gaining financial wealth. I learned that our Business Teacher had stock in Disney as her parents bought it for her as a gift. I had one stock, I inherited from a grandfather. It was a very exciting time of the year. Instead of scolding the students to put their phones away, I knew finally that were looking at something educational. It was the news or the market.

We completed the assignments in the text to master how to read a stock bar chart, a stock candlestick chart and how to study the data over time.

I left the presentation part up to the students. If they struggled, I allowed some handwritten projects. Others used charts, tables and some used excel. They used scientific calculators and checked their data with what they found online as well.

Since this was time consuming it was worth three grades. The first grade was the research part of the project. They had to report the open and close price of 10 stocks for two weeks. The second grade was the mathematics calculation section. They had to compute net change each day for of all 10 stocks and the percent of increase or decrease of stock at the end of the two week period.

The third grade required some analysis on their part. They had to pick a particular stock, research the company, evaluate their data and tell me whether or not they would purchase that stock and why. This made them make a decision what to with their money. Although we had no real investment we had real time data and facts.

Several students asked me to type a worksheet with directions although we had gone over several examples. I called it Stock Market Project Directions. In addition to several talented students, I students who struggled as they were different levels of ESOL or SPED disorders. They were able to assist each other as I was able to help individuals as needed.

Florida Standards

MAFS.912.A-CED.1.1: Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational absolute, and exponential functions.

MAFS.912.A-CED. 1.4: Rearrange formulas to highlight a quality of interest, suing the same reasoning as in solving equations.

MAFS.912.A-REI.1.1: Explain each step in solving a simple equation as following the equality of numbers asserted at the previous step, stating from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.

MAFS.912.A-REI-1.2: Solve simple and rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.

MAFS.912.F-IF.2.4: For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities and sketch graphs showing key features given a verbal description of the relationship. Key features include: intervals where the function is increasing,decreasing, positive or negative; relative maximums and minimums; symmetries, end behavior, and periodicity.

MIAMI-DADE COUNTY PUBLIC SCHOOLS
District Pacing Guide

Financial Algebra | **2018 – 2019** | **Course Code: 120038701**

Topic VIII: The Stock Market

Pacing		Date(s)
Traditional	21 days	02/22/19-03/22/19
Block	10 days	02/22/19-03/22/19

FLORIDA STATE STANDARDS & MATHEMATICAL PRACTICES (MP)	ESSENTIAL CONTENT	OBJECTIVES
MAFS.912.A-CED.1.1: Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational, absolute, and exponential functions. (MP.1, MP.2, MP.4, MP.5) MAFS.912.A-CED.1.4: Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. For example, rearrange Ohm's law V = IR to highlight resistance R. (MP.1, MP.2, MP.4, MP.5, MP.7) MAFS.912.A-REI.1.1: 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. (MP.1, MP.2, MP.3, MP.7) MAFS.912.A-REI.1.2: Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise. (MP.1, MP.2. MP.3, MP.7) MAFS. 912.F-IF.2.4 For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity. (MP.1, MP.2, MP.4, and MP.5) MAFS.912.S-ID.2.6: Represent data on two quantitative variables on a scatter plot, and describe how the variables are related. (MP.2, MP.3, MP.4, MP.7)	A. Business Organizations B. Stock Market Data C. Stock Market Data Charts D. Trends in Stock Closing Prices E. Stock Market Ticker F. Stock Transactions G. Stock Transaction Fees H. Stock Splits I. Dividend Income	I can: • express parts of a whole as ratios • compute financial responsibility of business ownership based on ratio and proportion • use stock data to follow the daily progress of a corporate stock. • use net change to compute closing prices. • use closing prices to compute net change. • compute the volume of shares traded from a stock table. • express net changes as percent of closing prices. • create spreadsheet formulas to model stock share progress. • interpret a stock bar chart. • create a stock bar chart. • create and interpret a stock candlestick chart. • compute net changes from bar charts and candlestick charts. • understand how data is smoothed. • calculate simple moving averages using the arithmetic average formula and the subtraction and addition method. • graph simple moving averages using a spreadsheet. • use regression analysis to examine trends in stock closing prices and to determine curves of best fit for stock closing prices (quadratic, cubic, quartic). • interpret stock market ticker displays. • determine the value of a trade form ticker output. • determine trade volumes from ticker displays. • compute gross capital gains and losses from stock trades. • express capital gain as a percent of purchase price. • compute the fees involved in buying and selling stocks. • compare percent commissions to flat fees. • calculate the post-split outstanding shares and share price for a traditional and a reverse split. • calculate the fractional value amount that a shareholder receives after a split. • compute dividend income and the yield for a given stock. • model yield computations algebraically. • compute yields after stock splits. • compute the interest earned on corporate bonds.

Lesson Plans and Step By Step Guide for Implementing

Read the money section from the local newspaper. Go to the Stockmarket pages in that section. I spent an entire class period reading them abbreviations for stocks and then divulging their names. We discussed many companies they had never heard of and of course the ones that they knew. We looked at the graphs, the opening prices, and the closing prices from the year before. We discussed how JC Penney had higher yearly increase than Amazon and Nike and why that could exist. This was informative, an eye-opener and a brain storming session with facts from the newspaper.

We completed the first three sections in our textbook on the Stock Market. This included reading the candlestick graph, computing net change, percent of increase and percent of decrease along with other calculations.

The students were shown how to access the Stock app by swiping to the left on their iPhone and how to download the free stock app on their Samsung phones. I explained that in the next few days they would have to pick 10 stocks to track for two weeks. They were allowed to pick some popular ones and to find a few unusual ones. Of course they picked, Amazon, google, tesla, nike and other well known brands. Others picked car manufacturers, precious metals, Boeing, cell phone carriers. They discovered that not every company has stock.

I gave them blank copy paper, a ruler and told them to write their 10 companies and abbreviations in a column. Then in the corresponding rows they would record the open and closing price of each stock for two weeks. They discovered that some are closed on the weekends.

In part two, they had to calculate the net change which is the closing price minus the closing price for each day. At the end of the two weeks they had to calculate the percent of increase or percent of decrease.

In part three, they had to look at their data and see what peaked their interest the most. They had to do some research and reading about one of the companies that they chose. They had to select that one company and say why they would buy that stock or not buy that stock.
I shared that I wish I had purchased 100 shares on Amazon a year ago, the last time I taught the lesson as I would have made a profit of more than 70,000. We also discussed conservative investors vs. risky investors or investments and how long you will keep your stock.

I provided a guideline for them to follow even though we many examples and reviewed many calculations. I will include the Stock Market Directions for Students on the Following page. This can be simplified or made more difficult by increasing the number of stocks, the amount time to track them, the number and type of calculations you want them to perform. They used a scientific calculator and some used excel.

Each day for two weeks we read the newspaper money section and checked the stocks, we also discussed how current events or tragedies had effected some companies and their stock.

Directions for Students

Stock Market Project

Part 1

Prepare a table with copy paper and ruler or use EXCEL if you know how.
List 10 stocks with their name and abbreviation. Organize the date and list the open and close price for each day for 14 consecutive dates. Start with March 15, 2019

Part 2

Calculate the net change each stock for each day. Our textbook suggests Close-Close.

Also, calculate the Percent of Increase or Percent of Decrease over the two week frame for each stock. You have to complete this one time for each stock. So 10 calculations and state whether it is a percent on increase or percent of decrease. Were you making $ or losing $.

Page 3

Pick the most interesting stock on your first page. Complete research about this stock/ company. Attach the research and write a short summary on whether or not you would actually invest in this company or not.

Although, it is not required, look at current events like the two plane crashes and how it affected Boeing and certain airlines and the market. Also, regarding the tragedy in New Zealand would it affect FB stock? This was a shooting that was posted online before it was taken down. These are interesting issues to research such as what factors affect the value or loss of value of a particular stock.

Use our textbook p. 472 ex 4 as a model to calculate the Percent of Increase

Resources

Students used their cell phones. Many had iPhones and a few had samsung cell phones. Only one student used her tablet in class and one used her apple laptop (mac).

The students had been trained and required to bring their own portable chargers (back up batteries) for their cell phones as the classroom I was assigned only had two working outlets. They nicely shared their back up chargers (portable batteries) with each other.

I supplied blank copy paper if they needed it. I obtained a few reams from the Ed. Fund Ocean Bank ware house therefore it was no cost to meet. You can buy a cheap ream of copy paper at Walmart for $5.

I have a box 30 rulers in my classroom. I obtained these several years ago at the Ed. Fund Ocean Bank warehouse. You can purchase 30 rulers for approximately $30 or less.

I paid for the Sunsentinel newspaper which was delivered to my home which costs me $38.92 for 6 months. You may be able to use any newspaper which is delivered to your school already and that you can share with another teacher. You can also just buy the newspaper for the 1 month you are working on this unit. I had to use the newspaper as I did not have a promethean board or smart board in my classroom for the entire year. I could not pull up graphs, data and discuss as a large group for basic understanding at the beginning of the project.

I used the textbook assigned for the Financial Algebra course in MDCPS for a framework and reference for two formulas used and basic vocabulary in the unit.

I easily located the Florida Standards for my project from the Pacing Guides in the Financial Alg. course under the 4th 9 weeks.

I used the app on my iPhone which is preloaded in my iPhone called Stocks. If you swipe to the left it appears. The students that had Samsung phones were told to go to the app store and download the free app called Stocks. They were able to easily do this in minutes.

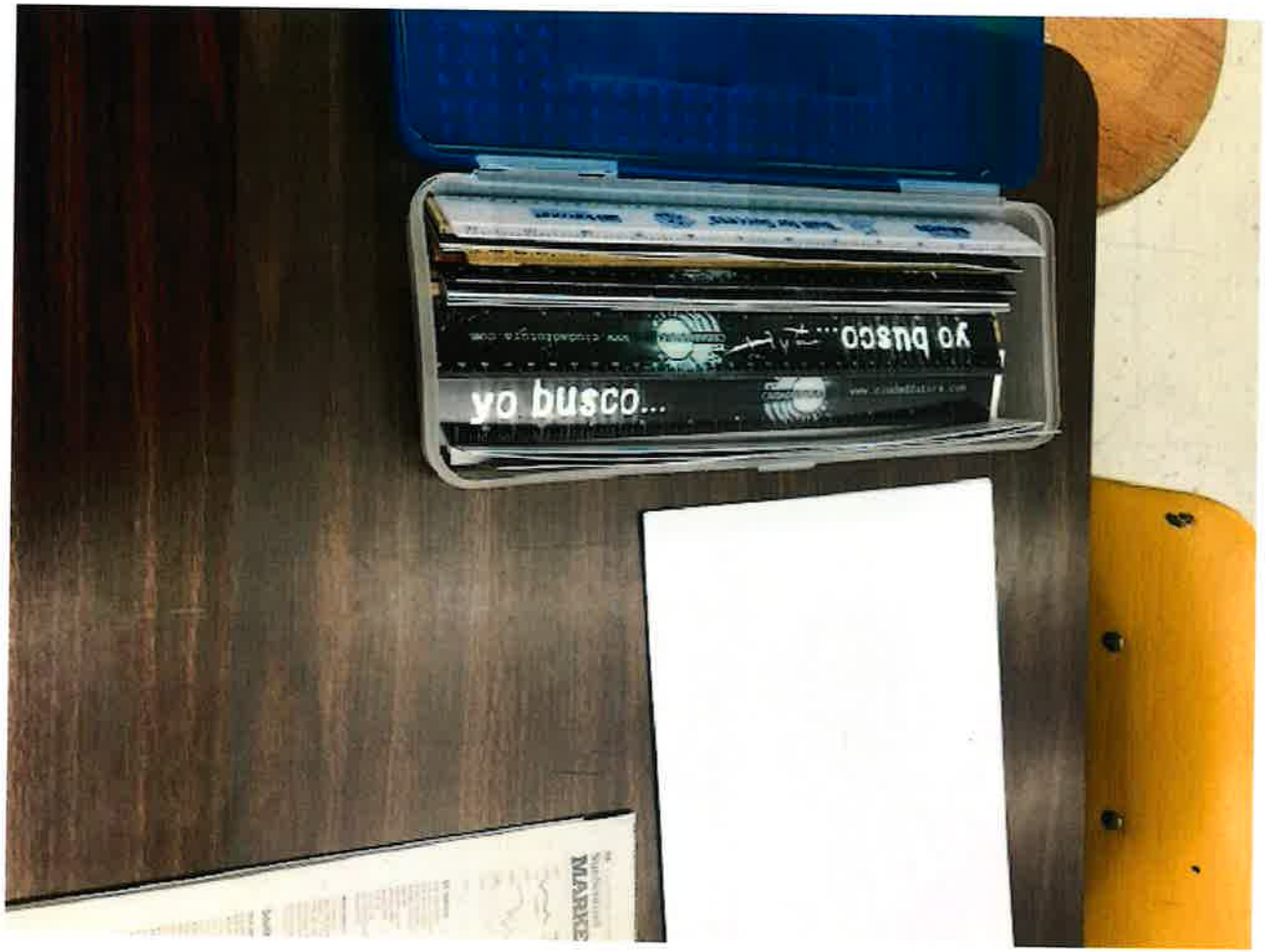
The students needed to be able to print the project either printed at home or in our media center for 5 cents per page. I did not print their projects for them.

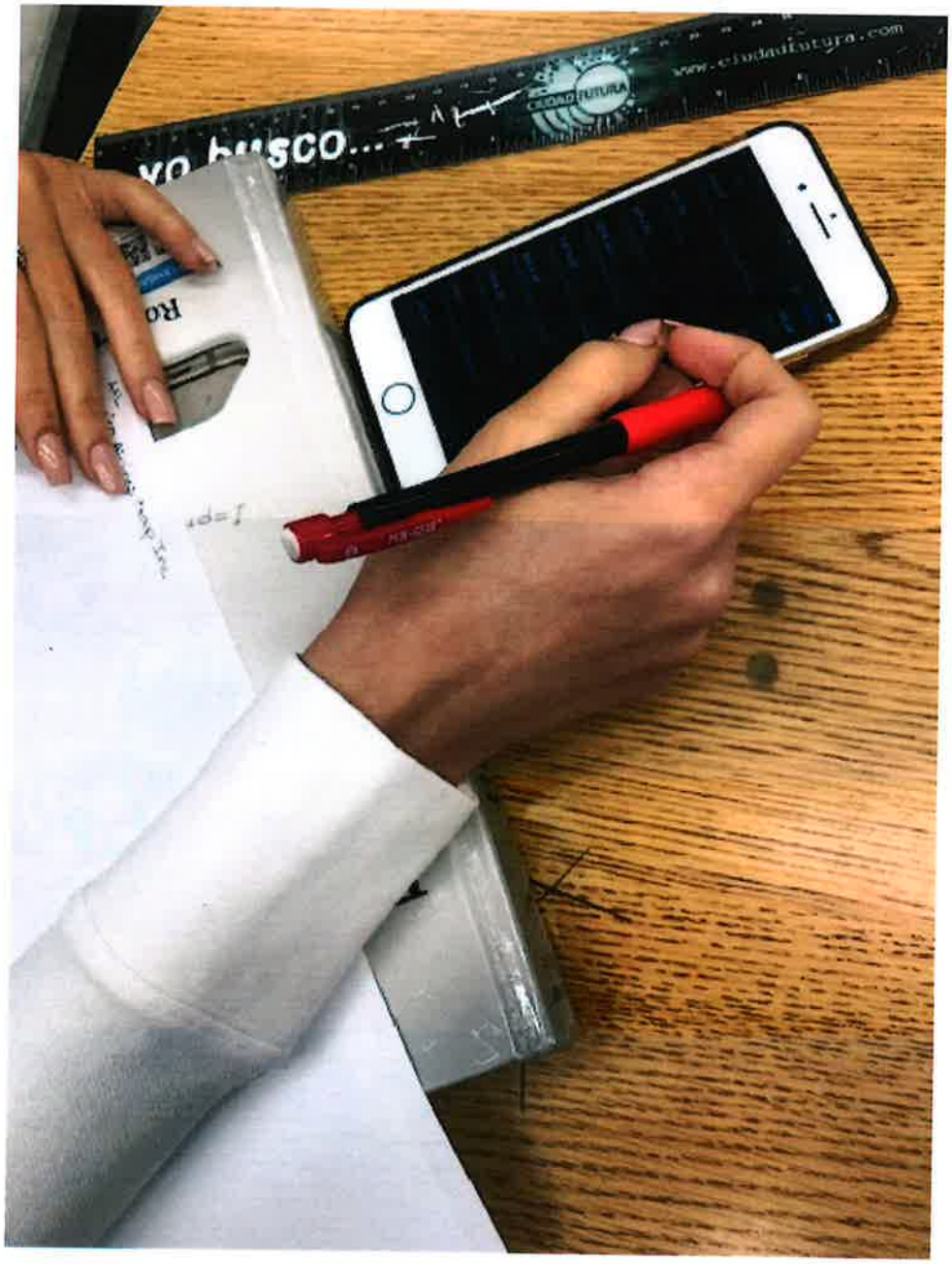
A few websites that the students discovered and liked to use were: marketwatch.com, finance.com, and investopedia. After they were further along in the project they researched websites of individual companies.

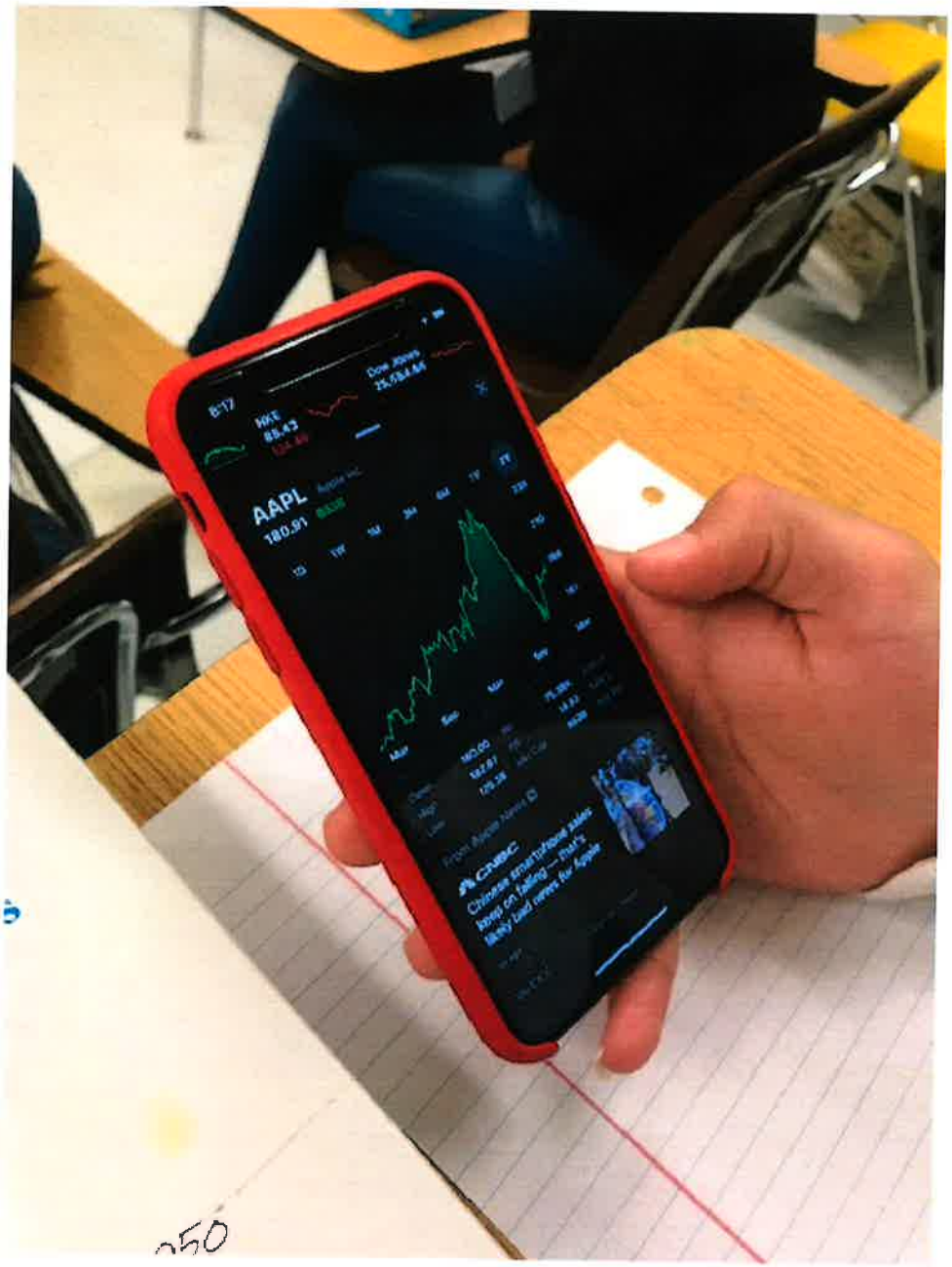
This year my guest speaker was a banker who discussed how to get approved for a commercial business loan. However, in the past I had a stock broker who spent the entire teaching the basics of the stock market. I acquired these guest speakers as part of the Teach-A-Thon program with the Ed. Fund. You could invite a stock broker to be your guest speaker as long as they are approved by the school district in advance.

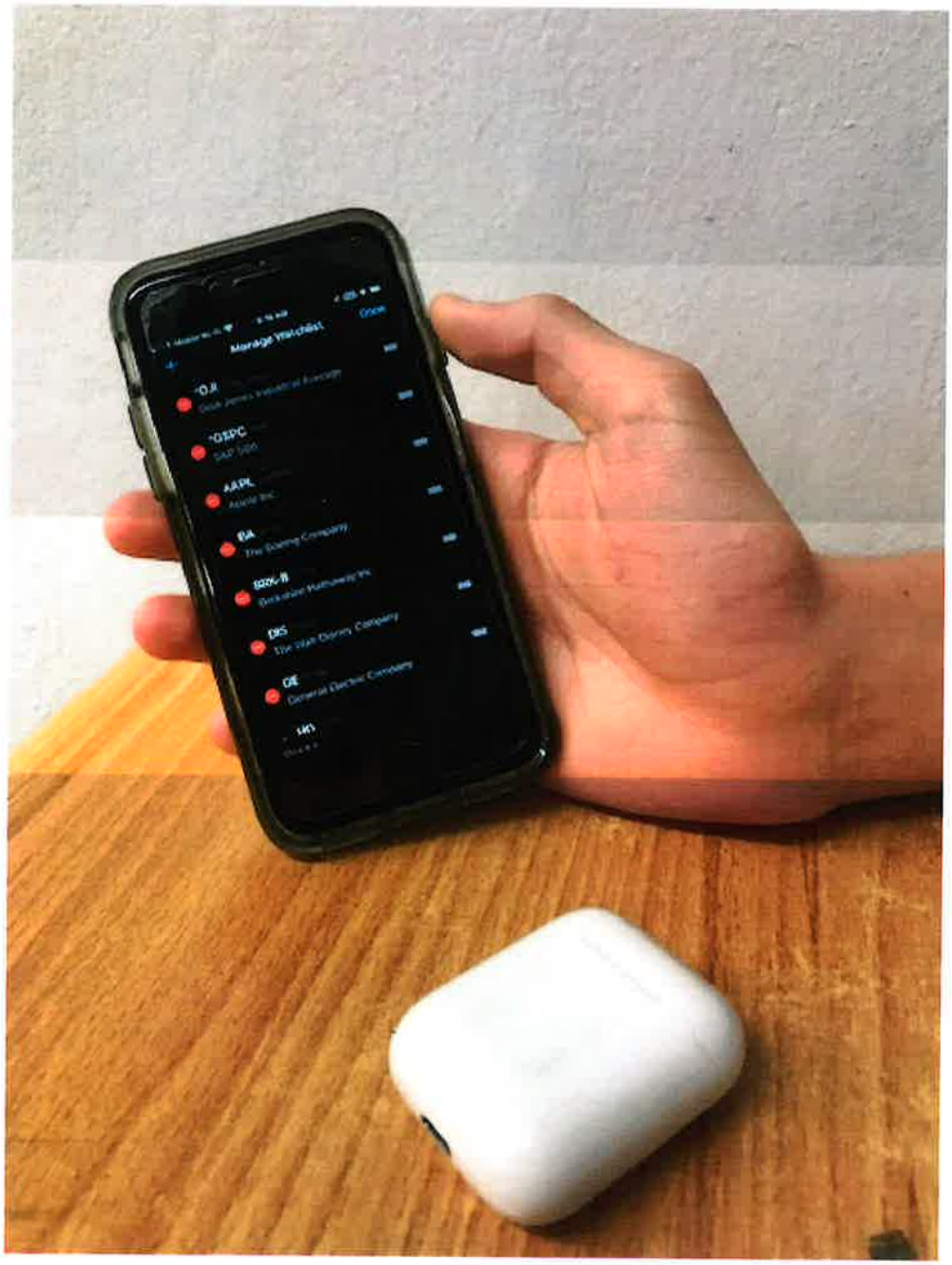
I will include sample projects, and photos from last year. The students and their parents signed a video release to be photographed.

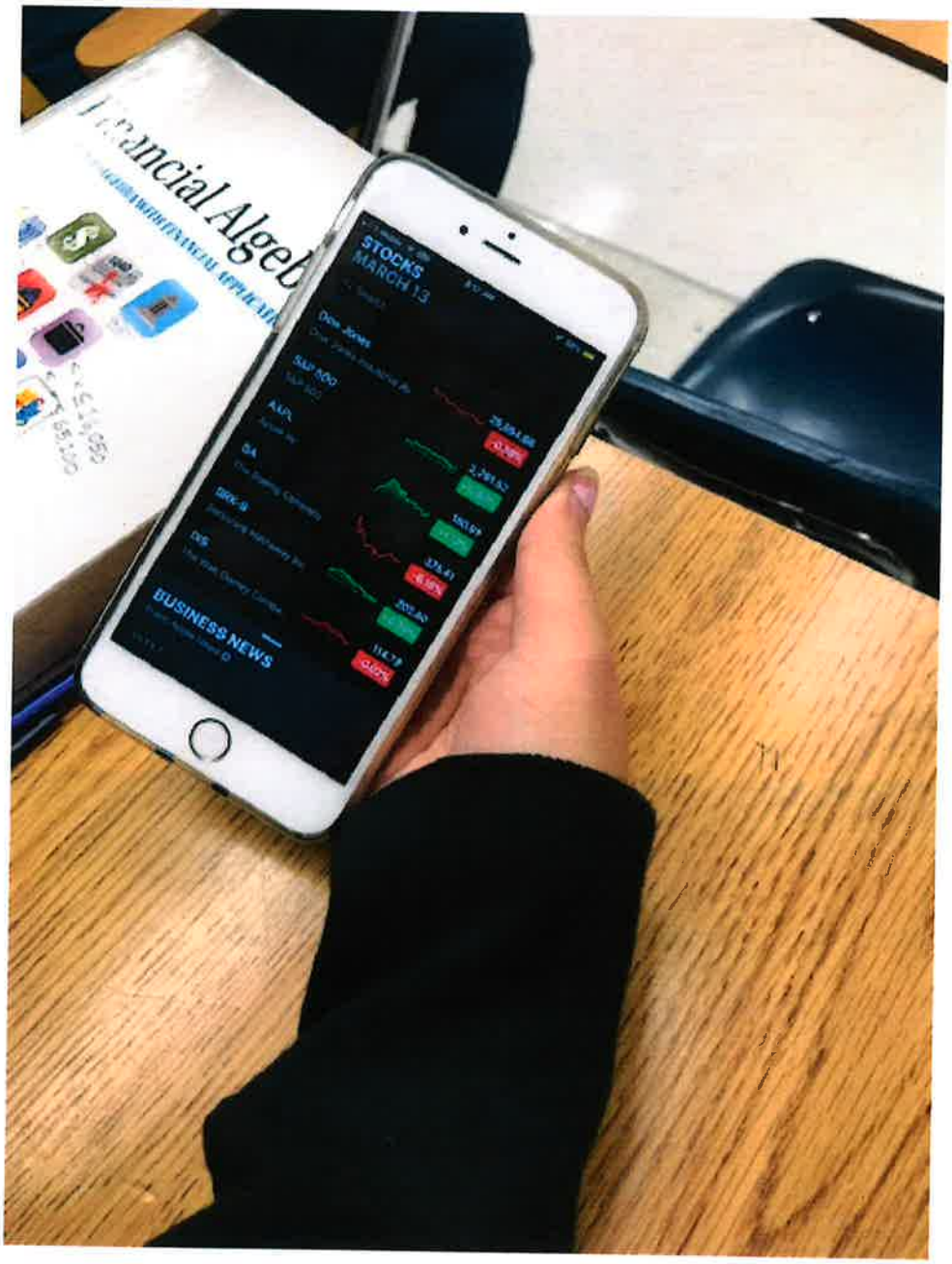
I did not plan a field trip although I am sure a field trip to a bank that has investment options would be very easy to tackle.

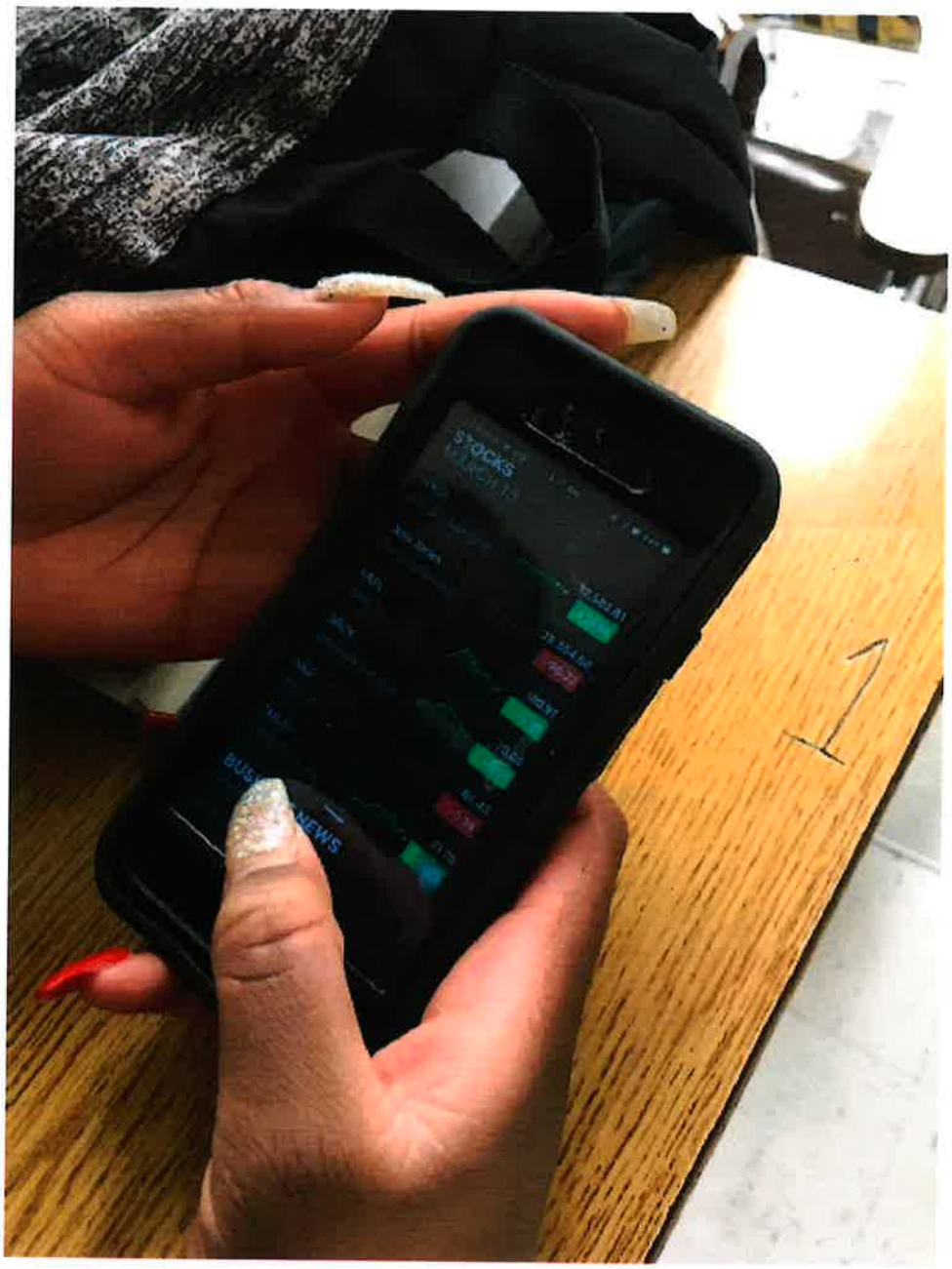

yo busco...
yo busco...

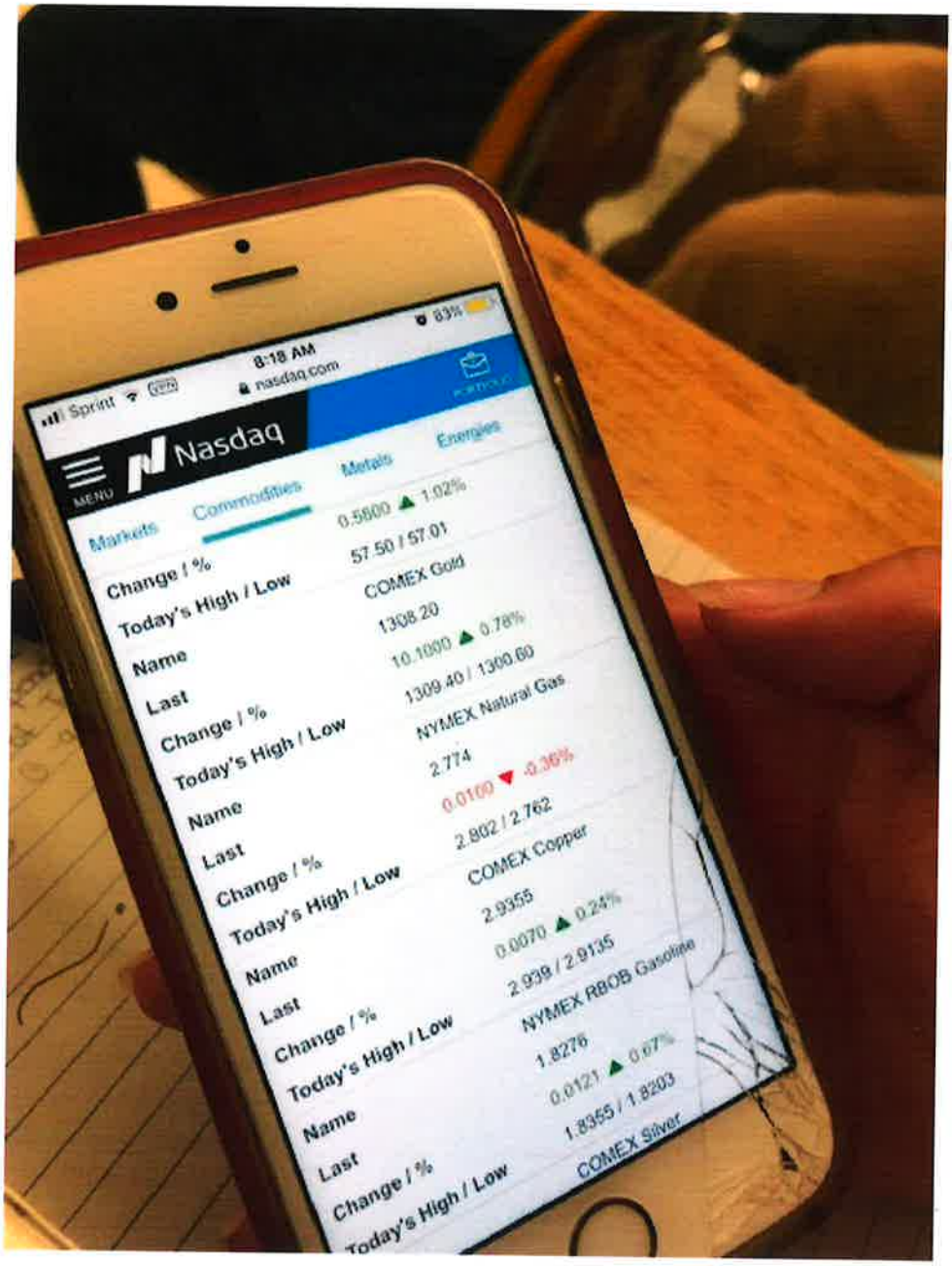

www.ciudadfutura.com

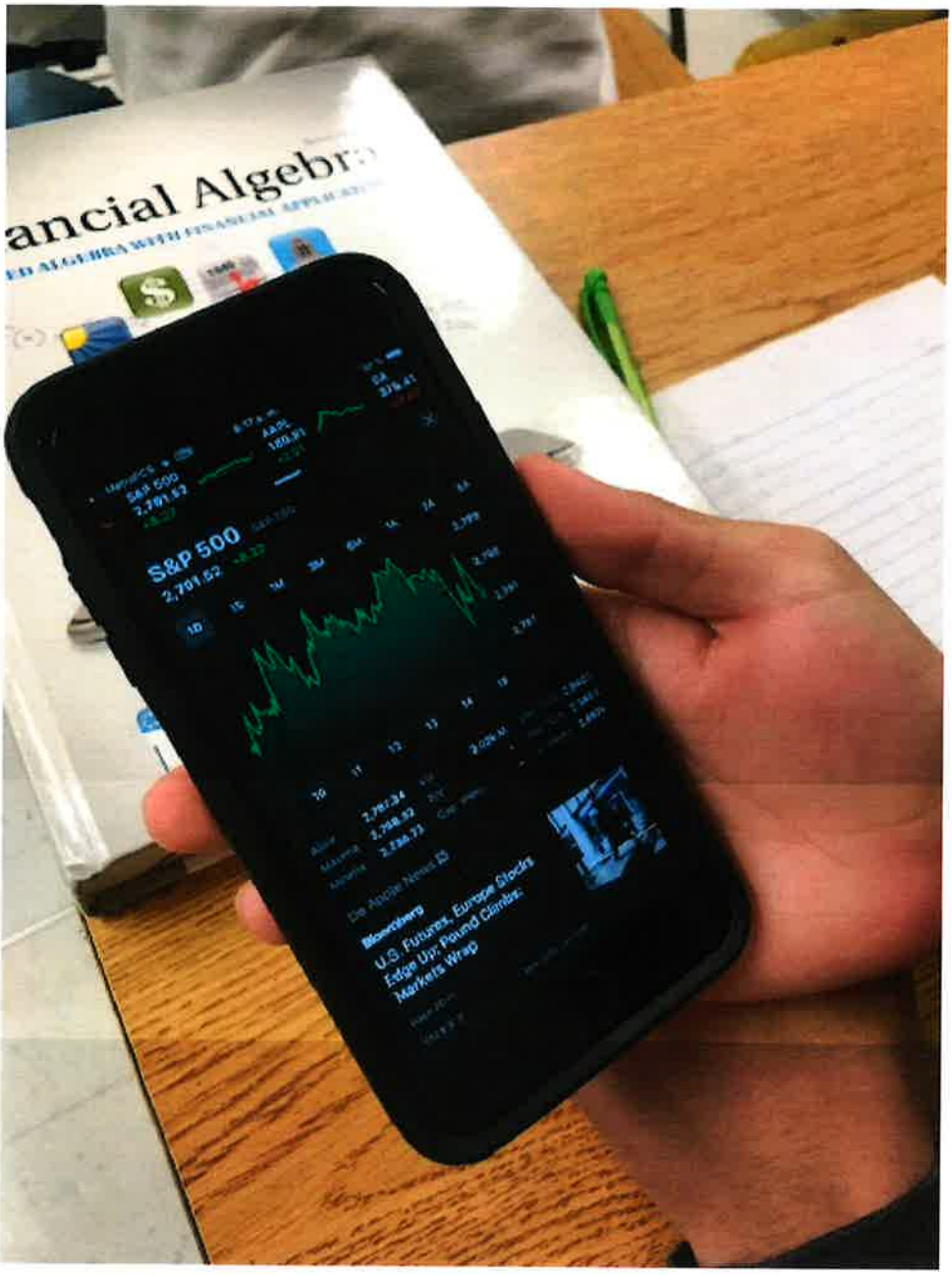

AAPL
180.91
Chinese smartphone sales keep on falling — that's likely bad news for Apple

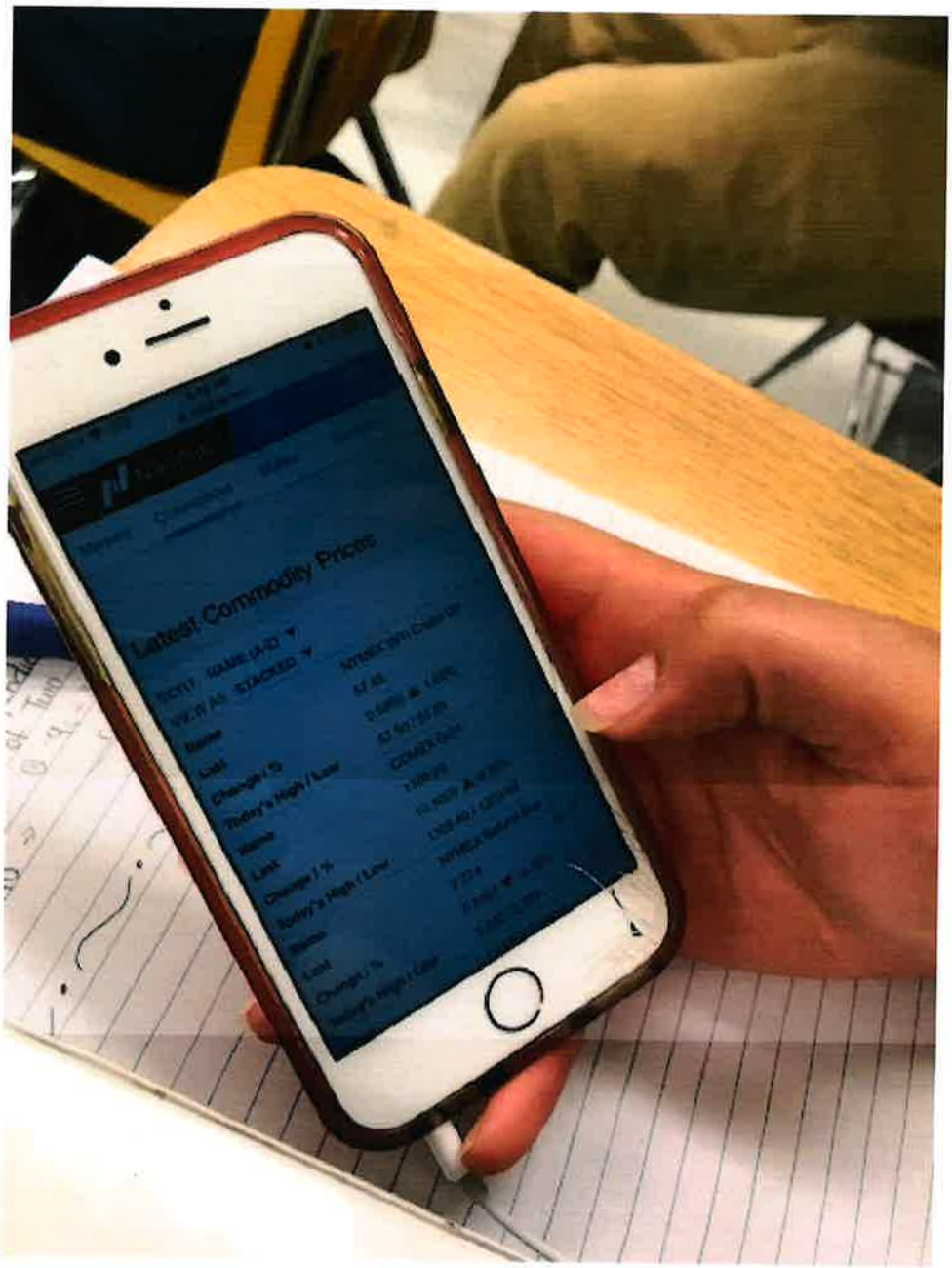

Manage Watchlist
Done

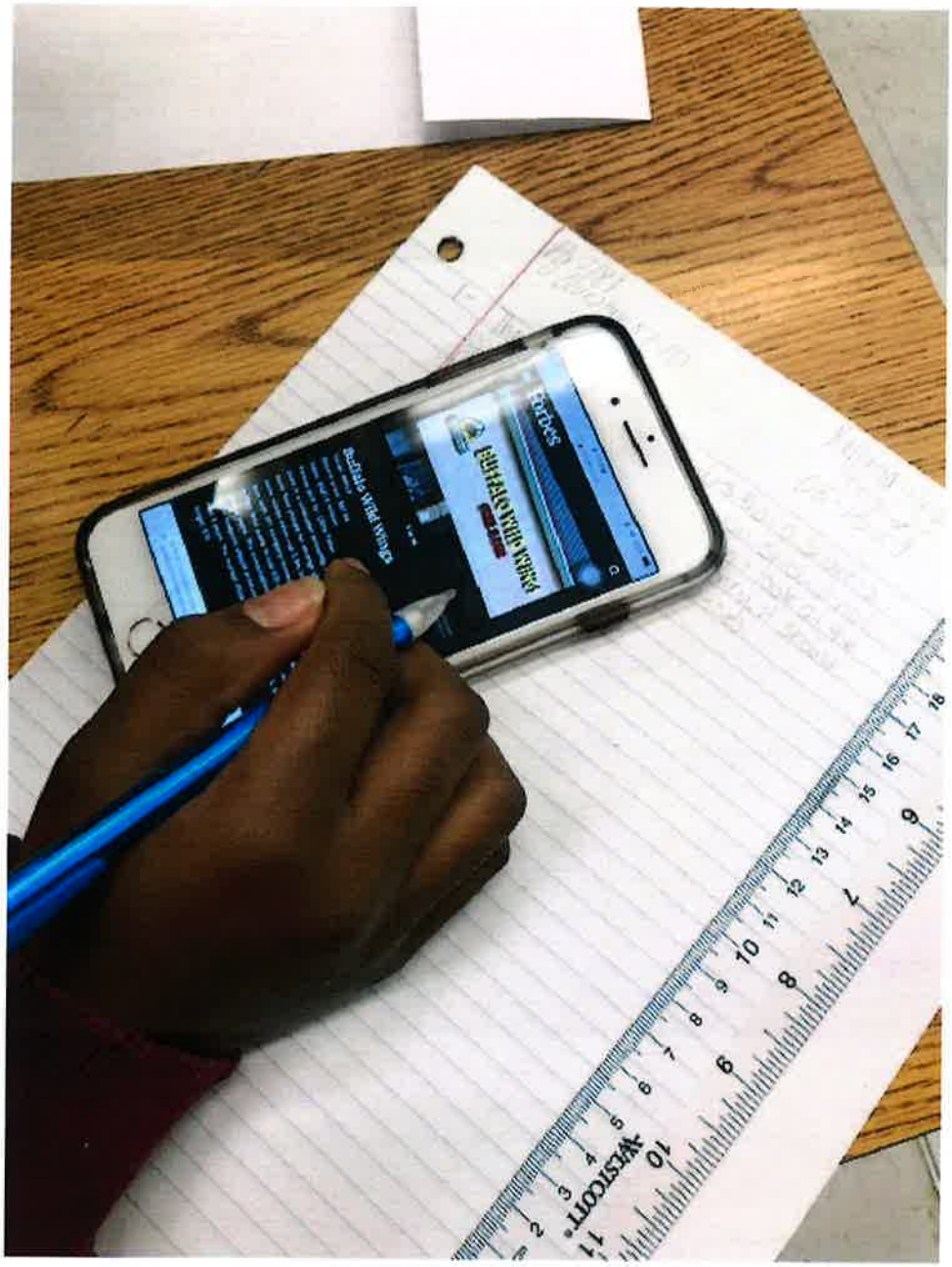

STOCKS
MARCH 13
BUSINESS NEWS


STOCKS
1


Sprint
8:18 AM
nasdaq.com
83%
Nasdaq
MENU
Markets
Commodities
Metals
Energies
Change / %
0.5600 ▲ 1.02%
Today's High / Low
57.50 / 57.01
Name
COMEX Gold
Last
1308.20
Change / %
10.1000 ▲ 0.78%
Today's High / Low
1309.40 / 1300.60
Name
NYMEX Natural Gas
Last
2.774
Change / %
0.0100 ▼ -0.36%
Today's High / Low
2.802 / 2.762
Name
COMEX Copper
Last
2.9355
Change / %
0.0070 ▲ 0.24%
Today's High / Low
2.939 / 2.9135
Name
NYMEX RBOB Gasoline
Last
1.8276
Change / %
0.0121 ▲ 0.67%
Today's High / Low
1.8355 / 1.8203
Name
COMEX Silver


ancial Algebr
S&P 500
2,701.62
Bloomberg
U.S. Futures, Europe Stocks
Edge Up; Pound Climbs:
Markets Wrap


Latest Commodity Prices


Forbes
WESTCOTT

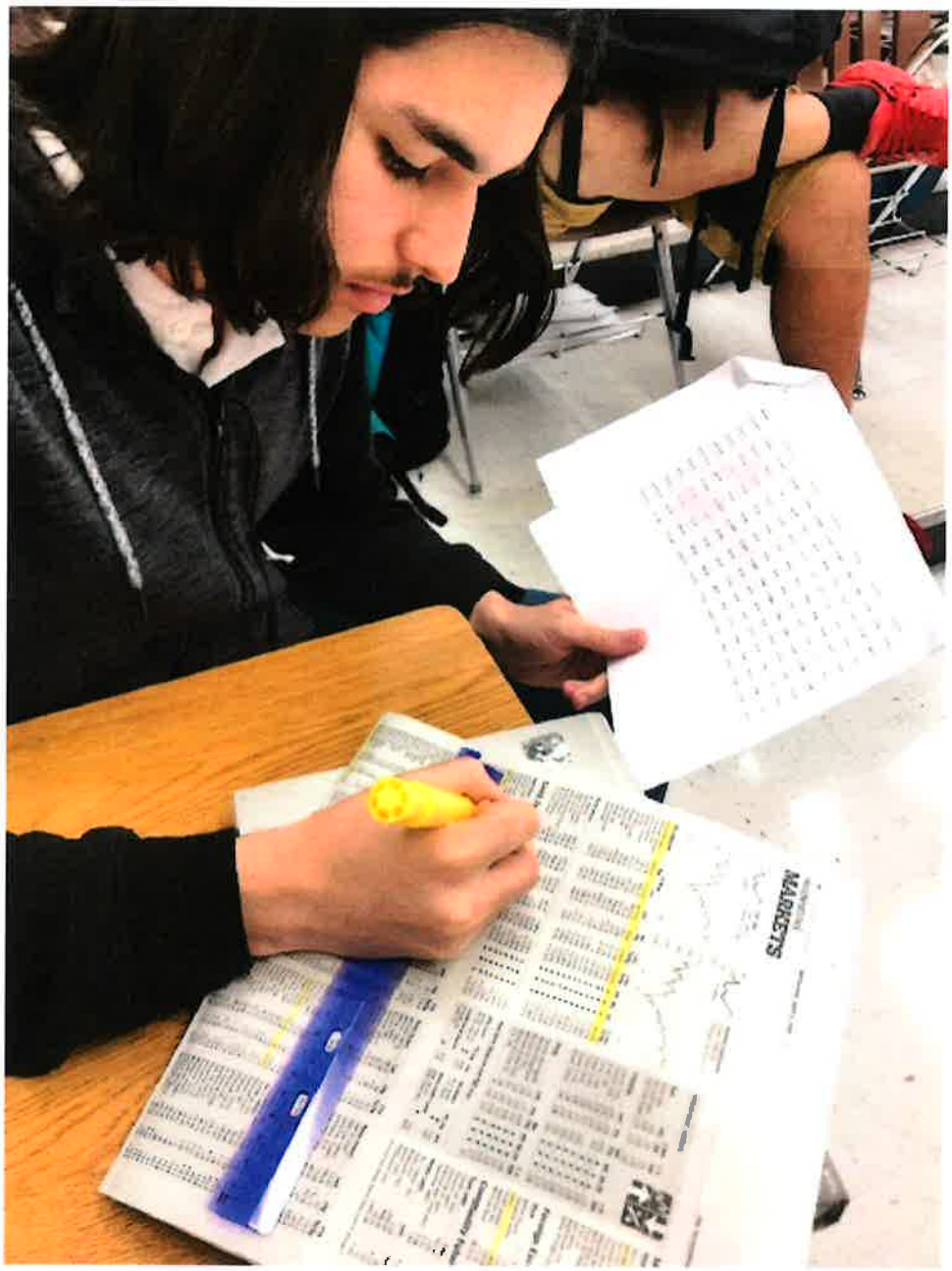
M Macy's, Inc.

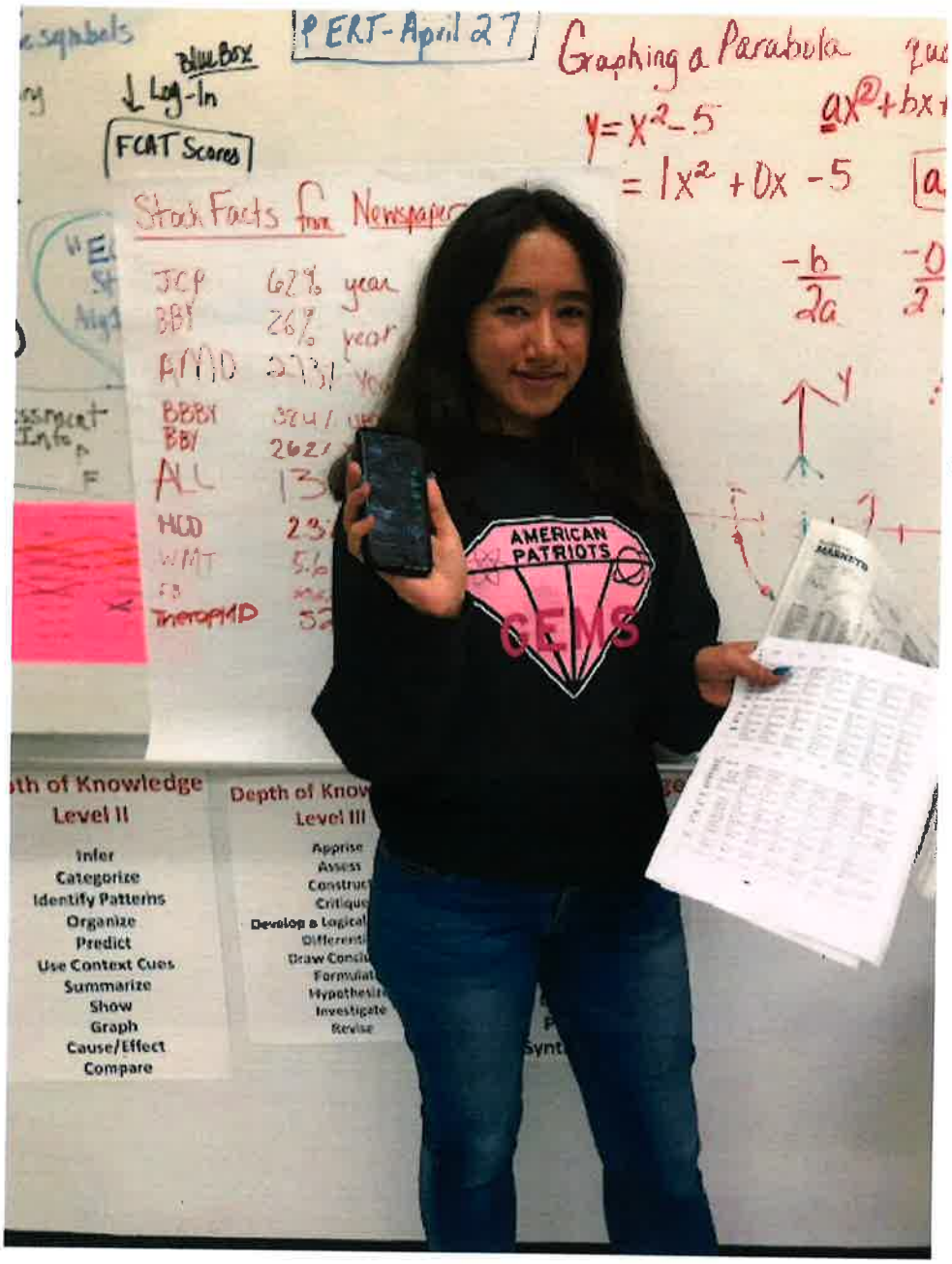
23.82 +0.25

1D 1W 1M 3M 6M 1Y 2Y

Open	23.69	Vol	8.35M	52W H	
High	23.92	P/E	6.69	52W L	
Low	23.37	Mkt Cap	7.325B	Avg Vol	

From Apple News


MAGNETS


PERT-April 27
Graphing a Parabola
Blue Box
Log-In
FCAT Scores
Stock Facts from Newspaper
JCP 62% year
BBY 26% year
AMD
BBBY
BBY
ALL
HCD
WMT
Therapy MD
AMERICAN PATRIOTS
GEMS
Level II
Infer
Categorize
Identify Patterns
Organize
Predict
Use Context Cues
Summarize
Show
Graph
Cause/Effect
Compare
Level III
Apprise
Assess
Investigate
Revise

SunSentinel
JOBS

Nervous Investor

Tips for the nervous investor

How to manage risk if you fear market crashes

SIGN UP TODAY

Get unlimited access to our members-only business website as well as our digital newsletter that delivers the morning's vital **Orlando business intelligence** to your inbox daily (every Monday-Friday). It's must-have, exclusive information, to gain a competitive edge.

Go to GrowthSpotter.com/SignUp

GrowthSpotter

GrowthSpotter
How successful people start their day.

vvv

Stock Market Project

Period: 4
4/9/19

Stock Abbreviation

	3/15/19	3/18/19	3/19/19	3/20/19	3/21/19	3/22/19	3/25/19	3/26/19	3/27/19	3/28/19	3/29/19	4/1/19
1) Starbucks SBUX	70.80 / 70.67	70.78 / 70.84	70.95 / 71.38	71.80 / 71.63	71.32 / 72.26	72.05 / 71.96	72.00 / 72.30	72.72 / 72.96	72.94 / 72.74	72.97 / 73.96	74.01 / 74.34	74.76 / 73.96
2) Apple AAPL	184.85 / 186.12	185.80 / 188.02	188.35 / 186.53	186.23 / 188.16	190.02 / 195.09	195.34 / 191.05	191.51 / 188.74	191.66 / 186.79	188.75 / 188.47	188.95 / 188.72	189.83 / 189.95	191.64 / 191.24
3) Disney DIS	114.50 / 114.96	113.03 / 113.12	112.95 / 110.00	110.31 / 109.99	110.10 / 108.66	108.33 / 108.23	108.49 / 107.79	108.40 / 110.14	110.45 / 110.28	110.60 / 110.71	111.36 / 111.03	111.59 / 112.57
4) Nike NKE	87.22 / 86.80	87.36 / 88.82	88.22 / 87.69	87.50 / 86.69	87.84 / 88.01	85.20 / 82.19	81.48 / 82.33	83.63 / 83.38	83.69 / 83.09	83.93 / 84.04	84.60 / 84.21	85.04 / 85.23
5) General Electric GE	10.29 / 9.96	9.99 / 10.20	10.22 / 10.19	10.13 / 10.22	10.20 / 10.17	10.22 / 9.98	9.96 / 9.88	9.95 / 10.10	10.08 / 9.96	9.96 / 9.89	9.98 / 9.99	10.02 / 10.10
6) AT&T T	30.51 / 30.67	30.68 / 30.80	30.87 / 30.68	30.59 / 30.51	30.45 / 31.06	31.00 / 31.07	31.10 / 30.72	30.97 / 31.39	31.31 / 31.40	31.48 / 31.01	31.16 / 31.36	31.60 / 31.45
7) Amazon AMZN	1703.00 / 1712.36	1712.70 / 1742.15	1753.51 / 1761.85	1769.94 / 1791.27	1796.26 / 1819.26	1810.17 / 1764.71	1757.79 / 1774.26	1793.00 / 1783.76	1784.13 / 1765.70	1770.00 / 1773.42	1786.58 / 1780.85	1800.14 / 1814.19
8) Netflix NFLX	361.08 / 361.46	362.47 / 363.44	366.40 / 358.78	358.91 / 375.22	374.00 / 377.81	375.95 / 361.01	359.00 / 360.23	367.87 / 359.97	361.00 / 353.37	354.49 / 354.61	357.16 / 356.36	359.00 / 366.96
9) Twitter TWTR	31.04 / 31.22	31.25 / 31.08	31.15 / 31.27	31.24 / 32.57	32.31 / 32.61	32.50 / 33.02	32.50 / 33.02	32.98 / 33.06	32.98 / 32.26	32.29 / 32.87	33.10 / 32.88	33.16 / 33.44
10) GODaddy GDDY	75.15 / 75.35	75.51 / 74.70	74.99 / 75.94	75.86 / 75.84	75.71 / 77.48	77.13 / 74.99	73.53 / 74.48	75.85 / 75.84	76.00 / 74.21	74.62 / 75.11	75.62 / 75.11	75.90 / 75.58

SBUX 70.67-70.84 -0.17	70.84-71.38 -0.54	71.38-71.63 -0.25	71.63-72.26 -0.63	72.26-71.96 -0.30	71.96-72.30 -0.34	72.30-72.96 -0.66	72.96-72.74 -0.22	72.74-73.96 -1.22	73.96-74.34 -0.38
Apple-AAPL 186.12-188.02 -1.9	188.02-186.53 1.49	186.53-188.16 -1.63	188.16-195.09 -6.93	195.09-191.05 4.04	191.05-188.74 2.31	188.74-186.79 1.95	186.79-188.47 -1.68	188.47-188.72 -0.25	188.72-189.95 -1.23
DIS 114.96-113.12 1.84	113.12-110.00 3.12	110.00-109.99 0.01	109.99-108.66 1.33	108.66-108.23 0.43	108.23-107.79 0.44	107.79-110.14 -2.35	110.14-110.28 -0.14	110.28-110.71 -0.43	110.71-111.03 -0.32
NKE 86.80-87.82 -1.02	87.82-87.69 0.13	87.69-86.69 1	86.89-88.01 -1.32	88.01-82.19 5.82	82.19-82.33 -0.141	82.33-83.38 -1.05	83.38-83.09 0.29	83.09-84.04 -0.95	84.04-84.21 -0.17
GE 9.96-10.20 -0.24	10.20-10.19 0.01	10.19-10.22 -0.03	10.22-10.17 0.05	10.17-9.98 0.19	9.98-9.88 0.1	9.88-10.10 -0.22	10.10-9.96 0.14	9.96-9.89 0.07	9.89-9 -0.1
I 30.67-30.80 -0.13	30.80-30.68 0.12	30.68-30.51 0.17	30.51-31.06 -0.55	31.06-31.07 -0.01	31.07-30.77 0.30	30.77-31.39 -0.62	31.39-31.40 -0.01	31.40-31.01 0.39	31.01-31.36 -0.35
AMZN 1712.36-1742.15 -29.79	1742.15-1761.85 -19.7	1761.85-1797.22 -35.42	1791.27-1819.26 -27.99	1819.26-1764.77 54.49	1764.77-1774.26 -9.49	1774.26-1774.26 0	1774.26-1763.76 -9.50	1763.76-1781.82 18.06	1765.70-1773.42 -67.72
NFLX 361.46-363.44 -1.98	363.44-356.78 4.66	356.78-375.22 -16.44	375.22-377.87 -2.65	377.87-361.01 16.86	361.01-366.23 -5.22	366.23-359.97 6.26	359.97-353.37 6.60	353.37-354.61 -1.24	354.61-356.56 -1.95
TNTR 31.22-31.08 0.14	31.08-31.27 -0.19	31.27-32.87 -1.3	32.61-33.02 -0.41	33.02-33.02 0	33.02-33.06 -0.04	33.06-32.23 0.83	32.23-32.87 -0.51	32.87-32.86 -0.01	32.86-44 -0.56
GDDY 75.35-74.70 0.65	74.70-75.94 -1.24	75.94-75.84 0.10	75.84-77.48 -1.64	77.48-74.99 2.49	74.99-74.48 0.51	74.48-75.84 -1.36	75.84-74.21 1.63	74.21-75.11 -0.9	75.11-75.11 0

Most interesting stock

My most interesting stock was Disney (DIS). This stock was interesting because it's a big company and one would think that it would do good but it went down from the first time I started to watch it.

The Walt Disney Co. is a diversified international family entertainment and media enterprise. It operates through the following segments: Media Networks, Parks & Resorts, Studio Entertainment and Consumer Products & Interactive Media. The Media Networks segment includes cable and broadcast television networks, television production and distribution operations, domestic television stations, radio networks and stations. The Parks and Resorts segment owns and operates the Walt Disney World Resort in Florida; the Disneyland Resort in California; Aulani, a Disney Resort & Spa in Hawaii; the Disney Vacation Club; the Disney Cruise Line; and Adventures by Disney. The Studio Entertainment segment produces and acquires live-action and animated motion pictures, direct-to-video content, musical recordings and live stage plays. This segment distributes films primarily under the Walt Disney Pictures, Pixar, Marvel, Lucasfilm and Touchstone banners.

https://www.marketwatch.com/investing/stock/dis/profile

In the end, I would invest in Disney because like everything it has its up and downs. I believe that during the summer and school breaks, this stock will increase.

% increase ?

r inc. (CAT)	3/15/19 133.87 132.67	3/18/19 132.70 134.10	3/19/19 135.35 134.15	3/20/19 133.83 133.01	3/21/19 132.16 134.06	3/22/19 132.99 129.77	3/25/19 129.59 130.59	3/26/19 132.69 131.84	3/27/19 132.27 130.40	3/28/19 131.90 132.37	3/29/19 134.00 135.49	
CVS Health Corporation (CVS)	3/15/19 55.92 55.60	3/18/19 55.61 56.67	3/19/19 56.70 57.09	3/20/19 56.82 56.16	3/21/19 56.07 57.40	3/22/19 57.11 56.04	3/25/19 55.80 54.95	3/26/19 55.38 54.86	3/27/19 53.94 54.05	3/28/19 54.18 53.36	3/29/19 53.55 53.93	
Coca-Cola Consolidated, Inc. (COKE)	3/15/19 256.36 257.75	3/18/19 258.22 258.54	3/19/19 259.79 258.96	3/20/19 258.72 258.59	3/21/19 258.31 260.65	3/22/19 260.07 259.25	3/25/19 259.27 262.97	3/26/19 265.00 281.01	3/27/19 280.00 277.66	3/28/19 276.83 283.97	3/29/19 284.91 287.83	
Netflix, Inc. (NFLX)	3/15/19 361.2 361.46	3/18/19 362.47 363.44	3/19/19 366.40 358.78	3/20/19 358.91 375.22	3/21/19 374.00 377.87	3/22/19 375.95 361.01	3/25/19 359.00 366.23	3/26/19 367.87 359.97	3/27/19 361.00 353.37	3/28/19 354.49 354.61	3/29/19 357.16 356.56	
Ford Motor Company	3/15/19 8.42 8.43	3/18/19 8.45 8.57	3/19/19 8.61 8.70	3/20/19 8.67 8.51	3/21/19 8.50 8.69	3/22/19 8.63 8.54	3/25/19 8.56 8.51	3/26/19 8.54 8.76	3/27/19 8.75 8.62	3/28/19 8.65 8.77	3/29/19 8.80 8.78	

VVV

26

period 8
4/30/2019

Ford Motor Company	3/15/19 8.42 8.43	3/18/19 8.45 8.57	3/19/19 8.61 8.70	3/20/19 8.67 8.51	3/21/19 8.50 8.69	3/22/19 8.63 8.54	3/25/19 8.56 8.51	3/26/19 8.54 8.76	3/27/19 8.75 8.62	3/28/19 8.65 8.77	3/29/19 8.80 8.78	
Verizon Communications Inc. (VZ)	3/15/19 58.08 58.39	3/18/19 58.27 58.07	3/19/19 58.10 57.50	3/20/19 57.51 57.67	3/21/19 57.58 58.29	3/22/19 58.16 59.76	3/25/19 59.63 60.08	3/26/19 60.30 60.63	3/27/19 60.56 60.88	3/28/19 60.88 59.08	3/29/19 59.20 59.13	
Facebook, Inc. (FB)	3/15/19 167.16 165.98	3/18/19 163.57 160.47	3/19/19 161.48 161.57	3/20/19 161.50 165.44	3/21/19 164.89 166.08	3/22/19 165.65 164.34	3/25/19 163.00 166.29	3/26/19 167.35 167.68	3/27/19 167.85 165.87	3/28/19 164.57 165.55	3/29/19 166.39 166.69	
TerraForm Power	3/15/19 13.63 12.60	3/18/19 12.70 13.17	3/19/19 13.37 14.07	3/20/19 14.08 14.02	3/21/19 13.69 13.82	3/22/19 13.81 13.69	3/25/19 13.68 13.78	3/26/19 13.80 13.83	3/27/19 13.83 13.75	3/28/19 13.75 13.77	3/29/19 13.80 13.74	
Wayfair Inc. (W)	3/15/19 164.31 166.01	3/18/19 165.96 169.25	3/19/19 170.22 168.32	3/20/19 170.00 171.14	3/21/19 172.31 171.37	3/22/19 170.02 158.50	3/25/19 157.27 161.55	3/26/19 163.62 158.50	3/27/19 158.81 150.32	3/28/19 151.93 149.79	3/29/19 150.12 148.45	

Marriott International, Inc. (MAR)	3/15/19 120.02 122.32	3/18/19 124.99 124.96	3/19/19 124.97 125.75	3/20/19 125.39 123.67	3/21/19 123.37 125.06	3/22/19 124.37 124.50	3/25/19 124.01 123.66	3/26/19 122.89 123.56	3/27/19 123.72 122.17	3/28/19 122.28 124.08	3/29/19 124.01 125.09	

Opening: Closing:

Caterpillar inc. (CAT)	3/15/19 0.9%	3/18/19 -1.4%	3/19/19 0.89%	3/20/19 0.89%	3/21/19 -1.41%	3/22/19 2.43%	3/25/19 0.71%	3/26/19 0.64%	3/27/19 1.43%	3/28/19 -0.35%	3/29/19 0.72%
CVS Health Corporation (CVS)	0.32%	-1.87%	0.89%	0.66%	1.17%	1.90%	-0.71%	0.64%	1.43%	1.53%	-0.70%
Coca-Cola Consolidated, Inc. (COKE)	-0.53%	-0.12%	0.32%	0.32%	-0.09%	0.31%	-1.40%	-5.69%	0.84%	-2.51%	-1.01%
Netflix, Inc. (NFLX)	-0.12%	-0.26%	2.12%	-4.34%	-1.02%	3.97%	-1.97%	2.19%	2.15%	-0.03%	0.16%
Ford Motor Company	-0.11%	-1.40%	1.88%	1.88%	-1.03%	1.05%	0.58%	-2.5%	1.50%	-1.36%	0.22%
Verizon Communications Inc. (VZ)	-0.53%	0.34%	1.04%	-0.27%	-1.21%	-2.68%	-0.74%	-0.54%	-0.52%	3.04%	0.11%
Facebook, Inc. (FB)	0.71%	1.93%	-2.38%	-2.38%	-1.21%	0.79%	-1.97%	-0.19%	1.19%	-0.59%	-0.17%
TerraForm Power	0.23%	-3.56%	-4.97%	0.42%	-0.94%	-0.10%	-0.72%	-0.21%	0.58%	-0.14%	0.44%
Wayfair Inc. (W)	-1.02%	-1.94%	1.37%	-0.66%	0.54%	0.28%	-2.64%	3.23%	5.64%	1.42%	1.12%
Marriott International, Inc. (MAR)	-1.88%	0.02%	-0.62%	1.39%	-1.35%	-0.55%	0.28%	-0.54%	1.26%	1.45%	-0.86%

https://www.fool.com/investing/2019/04/25/guess-how-many-subscribers-plan-to-cancel-netflix.aspx

Summary:

Considering all of the ten stocks I chose to study for the past two weeks in my opinion the ,most interesting stock that I would consider investing is Wayfair (W). The Wayfair stock company the seller of furniture and household goods has several extreme pros and cons. Out of each of the ten stocks listed above Wayfair (W) had an increase of 7.34% in the past two weeks. The biggest pro for the company has been sales growth In percentage. Over the last three years the company has been able to grow at a rate of 44% and by 42% in the third quarter. Way fair is expected to lose 1.28 per share for the fourth quarter of 2018 on revenue of $1.97 billion.

Patrick Bar

P.8 -

Name	3/15/2019		3/18/2019		3/19/2019		3/20/2019		3/21/2019		3/22/2019	
eCobalt	0.2400	0.2800	0.3000	0.2900	0.2900	0.2700	0.2800	0.2800	0.2800	0.2700	0.2700	0.2700
Tesla	283.51	283.51	276	269.49	267.5	267.47	269.69	273.6	272.6	274.02	272.85	364.53
Twitter	31.04	31.22	31.25	31.08	31.15	31.27	31.24	32.57	32.31	32.61	32.50	33.02
Ubisoft	72.14	75.02	75.18	75.00	75.10	76.24	76.82	78.40	78.48	80.88	81.72	79.50
Best Buy	68.88	69.63	69.66	70.24	70.26	69.89	69.65	69.11	69.07	70.56	72.13	70.11
Razer	0.1833	0.1800	0.1800	0.1880	0.1880	0.1880	0.1864	0.1864	0.1867	0.2100	0.1988	0.2100
MSI	Closed	Closed	82.00	82.00	82.00	82.00	82.00	82.00	82.00	82.00	Closed	Closed
Amd	23.10	23.29	23.30	23.25	23.60	26.00	26.49	25.70	25.78	27.89	27.54	26.37
Logitech	38.58	38.65	38.31	38.18	38.24	38.32	37.70	37.84	37.84	38.10	37.89	37.03
PepsiCo	115.68	115.66	116.17	117.27	117.36	118.09	118.07	118.32	118.01	119.44	119.50	120.72

32

3/25/2019		3/26/2019		3/27/2019		3/28/2019		3/29/2019	
0.2500	0.2600	0.2600	0.2600	0.2500	0.2500	0.2600	0.2500	0.2500	0.2600
259.74	260.42	264.44	267.77	268.75	274.83	277.16	278.62	278.7	279.86
32.83	32.59	32.98	33.06	32.93	32.28	32.29	32.87	32.10	32.88
79.00	79.42	79.44	79.30	79.36	77.80	77.90	79.36	78.96	79.36
69.82	70.89	71.44	70.50	70.38	70.50	70.85	71.10	71.28	71.06
0.2220	0.2197	0.2123	0.2078	0.2083	0.2100	0.2038	0.2110	0.2144	0.2200
84.70	83.40	84.00	82.90	82.10	82.20	83.30	86.50	83.50	86.50
26.29	25.97	26.69	25.69	25.70	24.89	25.10	25.06	25.58	25.52
36.93	36.93	37.37	37.24	37.91	37.53	38.42	38.24	38.99	39.34
120.26	120.85	121.46	122.02	122.46	121.89	121.89	121.84	122.29	122.55

P.8

Name	3/15/2019	3/18/2019	3/19/2019	3/20/2019	3/21/2019	3/22/2019
eCobalt	-14.30% net -0.04	3.44% net 0.01	7.40% net 0.02	0% net 0	3.70% net 0.01	0% net 0
Tesla	0% net 0	2.41% net 6.51	0.01% net 0.03	-1.42% net -3.91	-0.15% net -1.42	-25.4% net -91.68
Twitter	-0.60% net -0.18	2.43% net 0.17	-0.40% net -0.12	-4.08% net -1.33	-0.91% net -0.3	~~0.33%~~ -1.67%
Ubisoft	-3.83% net -2.88	0.24% net 0.18	-1.14% net -1.14	-2.01% net -1.58	-3.70% net -2.43	2.80% net 2.22
Best Buy	-1.07% net -0.75	-0.82% net -0.58	0.60% net 0.37	0.84% net 0.54	-3.40% net -1.49	2.91% net 2.02
Razer	1.83% net 0.0033	-4.26% net -0.008	0% net 0	0% net 0	-11.10% net -0.0233	-5.33% net -0.0112
MSI	Closed	0% net 0	0% net 0	0% net 0	0% net 0	Closed
Amd	-0.81% net -0.19	0.22% net 0.05	-9.23% net -2.4	3.10% net 0.79	-8% net -0.08	4.43% net 1.17
Logitech	-0.20% net -0.07	0.34% net 0.13	-0.21% net -0.08	-0.40% net -0.14	-1.10% net -0.26	2.32% net 0.86
PepsiCo	0.02% net 0.02	-0.94% net -1.1	-0.62% net -0.73	-0.21% net -0.25	-1.20% net -1.43	-1.01% net -1.22

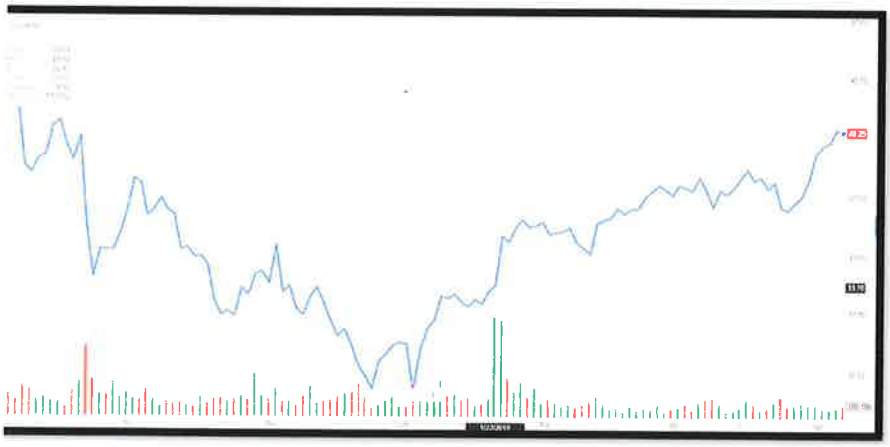
Should be Red

34

Supposed to be colored red

3/25/2019	3/26/2019	3/27/2019	3/28/2019	3/29/2019	Total	
-3.84% net -0.01	0% net 0	0% net 0	4% net 0.01	-3.84% net -0.01	-8%	
-0.30% net -0.68	-1.24% net -3.33	-2.21% net -6.08	-1.20% net -1.46	-0.41% net -1.16	1.3%	
1.30% net 0.24	-0.24% net -0.08	2.01% net 0.65	-2% net -0.58	-2.40% net -0.78	-5.6%	
-1.20% net -0.42	0.20% net 0.14	2.00% net 1.56	-2% net -1.46	-0.50% net -0.4	-9.1%	
-1.50% net -1.07	1.33% net 0.94	-0.20% net -0.12	-0.40% net -0.25	0.30% net 0.22	-3.1%	
1.05% net 0.0023	2.20% net 0.0045	-1% net -0.0017	-3.42% net -0.0072	-3.04% net -0.056	-16.7%	
1.60% net 1.3	1.32% net 1.1	-0.12% net -0.1	-3.70% net -3.2	-3.5 net -3	-5.2%	
1.23% net 0.32	4% net 1	-1.03%	0.20% net 0.04	0.24% net 0.06	-9.5%	
0% net 0	0.34% net 0.15	1.01% net 0.38	0.50% net 0.18	-1.08 net -0.35	2.03%	Winner
-0.50% net -0.59	-0.50% net -0.56	0.82% net 0.57	0.04% net 0.05	-0.21% net -0.26	-6%	

Logitech®



Logitech was co-founded in Apples, Vaud, Switzerland, in 1981 by two Stanford alumni, Daniel Borel and Pierluigi Zappacosta, and a former Olivetti engineer, Giacomo Marini.

The name Logitech is derived from the French word for software, "logiciel".

Products	Peripherals
Revenue	▲ US$2.57 billion (2018)
Net income	▲ US$74 million (2014)
Total assets	▲ US$1.5 billion (2013)
Total equity	▲ US$0.7 billion (2013)
Number of employees	~7000 (2018)
Subsidiaries	3Dconnexion Blue Microphones (pending) Jaybird Mirial s.u.r.l. SightSpeed Slim Devices Ultimate Ears
Website	www.logitech.com

In my personal opinion after tracking Logitech stocks for two weeks plus the research on the company itself I can safely say it is a solid choice to invest in and purchase stocks, recently doing better that recent years due to the surge of technology and the demand for the product in everyday homes.

Names
Mar 15
Mar 16
Mar 17
Mar 18
Mar 19
Mar 20
Mar 21
Mar 22
Mar 23
Mar 24
Mar 25
Mar 26
Mar 27
Mar 28
Mar 29.
Facebook FB
Amazon AMZN
Walmart. WMT
Netflix NFLX
Best Buy BBY
Macy's FDO.F
Walgreens WBA
AT&T T
Twitter TWTR
Nordstrom NSLH.L

Facebook

$$\frac{166.39 - 37,574,200}{37,574,200} = 1.6\%$$

Amazon

$$\frac{1.786.58 - 7,590,900}{7,590,900} = 0.18\%$$

Walmart

$$\frac{97.59 - 14,600,00}{14,600,00} = 9.6\%$$

Netflic

$$\frac{357.16 - 8,444,500}{8,444,500} = 3.5\%$$

Best Buy

$$\frac{71.28 - 6,817,000}{6,817,000} = 1.0\%$$

Macy's

$$\frac{21.38 - 20.68}{20.68} = 9.8\%$$

Walgreen

$$\frac{627.5 - 9773.500}{9773,500} = 6.4\%$$

At&t

$$\frac{31.16 - 30.67}{30.67} = 1.5\%$$

twitter

$$\frac{33.10 - 31.22}{31.22} = 6.0\%$$

Marshalls

$$\frac{609.00 - 598.50}{598.500} = 1.0\%$$

AMAZON

Amazon, the shopping website that started as a book store has proven to be a dynamic company that managed to conquer the world through time and the evolution of its different services.

According to an analysis by the firm ve por más (Bx+) the strategy to diversity is evident in its actions in 2017 the price of these obtained a 65% increase against the S and P 500 index, which had a 19.5 % increase.

For that reason, Amazon is one of the most Attractive options to invest in 2018 According to the Analysis Firm

It is very good to invest in Amazon because Amazon in a period of two weeks only lost 0.13% in the stock Market.

Stock Market Project

Period 4

STOCK Market Project

STOCK abbrev.	Open/close	3/15	3/16	3/17	3/18	3/19	3/20	3/21	3/22	3/23	3/24	3/25	3/26	3/27	3/28
① Microsoft Coorporation (MSFT)	① 115.34 114.59		X	X	① 116.17 ② 117.57	① 118.09 117.55	① 117.39 117.53	117.135 120.32	119.42 117.05	X	X	116.56 117.66	118.62 117.91	117.87 116.77	117.44 116.93
② Intuit (INTU)	② 356.50 356.77		X	X	① 358.25 ② 357.72	① 358.63 356.06	① 356.18 355.99	354.6 360.62	358.36 359.68	X	X	352.36 353.83	355.66 355.99	357.72 355.38	356.55 359.82
③ Amazon (AMZN)	③ 1,703.00 1,686.33		X	X	① 1,712.7 ② 1,743.15	① 1753.51 1761.85	1,769.9 1791.37	1796.26 1819.26	1,809.37 1764.77	X	X	1783.68 1774.26	1793 1783.76	1784.13 1765.7	1770 1773.42
④ Shopify (SHOP)	④ 308.87 308.34		X	X	① 304.5 ② 305.77	① 307.7 303.09	300.53 301.34	300.33 305	304.31 198.75	X	X	198.05 301.45	303.63 304.37	305.66 300.08	300.83 303.45
⑤ Square (SQ)	⑤ 77.81 77.39		X	X	① 76.61 ② 75.23	① 75.68 76.81	76.18 75.36	74.87 78.53	78.24 75.09	X	X	74.45 74.55	75.66 73.93	75.38 73.97	73.66 74.36
⑥ Teladoc (TDOC)	⑥ 61.00 60.96		X	X	① 62.85 ② 63.1	① 63.65 63.12	63.95 61.99	61.49 63.36	63.70 58.77	X	X	58.77 55.66	56.34 58.5	57.34 50.87	51.66 53.68
⑦ Trade Desk (TTD)	⑦ 308.57 308.23		X	X	① 308.00 303.75	① 304.31 305.67	① 305.45 305.96	① 304.47 313.57	313.65 303.91	X	X	301.5 197.04	301.53 186.94	187.71 180.38	180.6 186.51
⑧ Starbucks (SBUX)	⑧ 70.80 70.74		X	X	① 70.76 ② 70.84	① 70.95 71.38	71.8 71.63	71.33 72.36	72.04 71.98	X	X	72 72.3	72.72 72.96	72.94 72.74	72.97 73.96
⑨ Google (GOOG)	⑨ 1,198.00 1,193.53		X	X	① 1,183.3 1,184.26	① 1188.61 1198.85	1197.35 1323.97	1316 1331.54	1335.38 1205.5	X	X	1196.93 1193	1198.53 1184.62	1185.5 1173.03	1171.54 1168.49
⑩ Facebook (FB)	⑩ 167.16 170.17		X	X	① 163.57 160.47	① 161.48 161.57	161.5 165.44	164.89 166.08	165.55 164.34	X	X	163 166.39	167.35 167.68	167.85 165.87	164.57 165.55

11

	3/15 & 3/18	3/19 & 3/20	3/21 & 3/22	3/25 & 3/26	3/27 & 3/28
MSFT	117.57 -114.59 +2.98	117.52 -117.65 -0.13	117.05 -120.22 -3.17	117.91 -117.66 +0.25	116.93 -116.77 +0.16
INTU	257.72 -252.77 +0.95	255.99 -256.06 -0.07	252.65 -260.62 -7.97	255.99 -253.83 +509.82	259.22 -255.38 +3.84
AMZN	1,742.15 -1,686.22 +55.93	1797.27 -1761.85 +35.42	1764.77 -1819.26 -54.49	1783.76 -1774.26 +9.5	1773.42 -1765.7 +7.72
SHOP	205.77 -208.24 -2.47	201.34 -202.09 -0.75	198.75 -205 -6.25	204.37 -201.45 +2.92	203.45 -200.08 +3.37
SQ	75.23 -77.39 -2.16	75.26 -76.81 -1.55	75.09 -78.53 -3.44	73.93 -74.55 -0.62	74.26 -72.97 +1.29
TDOC	63.1 -60.96 +2.14	61.99 -63.12 -1.13	58.77 -63.26 -4.49	52.5 -55.66 -3.16	53.68 -50.87 +2.81
TTD	203.75 -208.23 -4.48	205.96 -205.67 +0.29	202.91 -213.57 -10.66	186.94 -197.04 -10.1	186.51 -180.38 +6.13
SBUX	70.84 -70.14 +0.7	71.63 -71.38 +0.25	71.96 -72.26 -0.3	72.96 -72.3 +0.66	73.96 -72.74 +1.22
GOOG	1,184.26 -1,192.53 -8.27	1,223.97 -1198.85 +25.12	1205.5 -1231.54 -26.04	1184.62 -1193 -8.38	1168.49 -1173.02 -4.53
FB	160.47 -170.17 -9.7	165.44 -161.57 +3.87	164.34 -166.08 -1.74	167.68 -166.29 +1.39	165.55 -165.87 -0.32

42

1) MSFT - $\frac{118.01 - 114.59}{114.59} = \frac{3.48}{114.59} = 0.030 = 3.0\%$ increase

2) INTU - $\frac{260.24 - 256.77}{256.77} = \frac{3.47}{256.77} = 0.013 = 1.3\%$ increase

3) AMZN - $\frac{1786.58 - 1686.22}{1686.22} = \frac{100.36}{1686.22} = 0.0591 = 5.9\%$ increase

4) SHOP - $\frac{205.88 - 208.24}{208.24} = \frac{-2.36}{208.24} = -0.011 = -1.1\%$ decrease

5) SQ - $\frac{74.62 - 77.39}{77.39} = \frac{-2.77}{77.39} = -0.035 = -3.5\%$ decrease

6) TDOC - $\frac{54.18 - 60.96}{60.96} = \frac{-6.78}{60.96} = -0.111 = -1.1\%$ decrease

7) TTD - $\frac{189.11 - 208.23}{208.23} = \frac{-19.12}{208.23} = -0.091 = -9.1\%$ decrease

8) SBUX - $\frac{74.01 - 70.74}{70.74} = \frac{3.27}{70.74} = 0.046 = 4.6\%$ increase

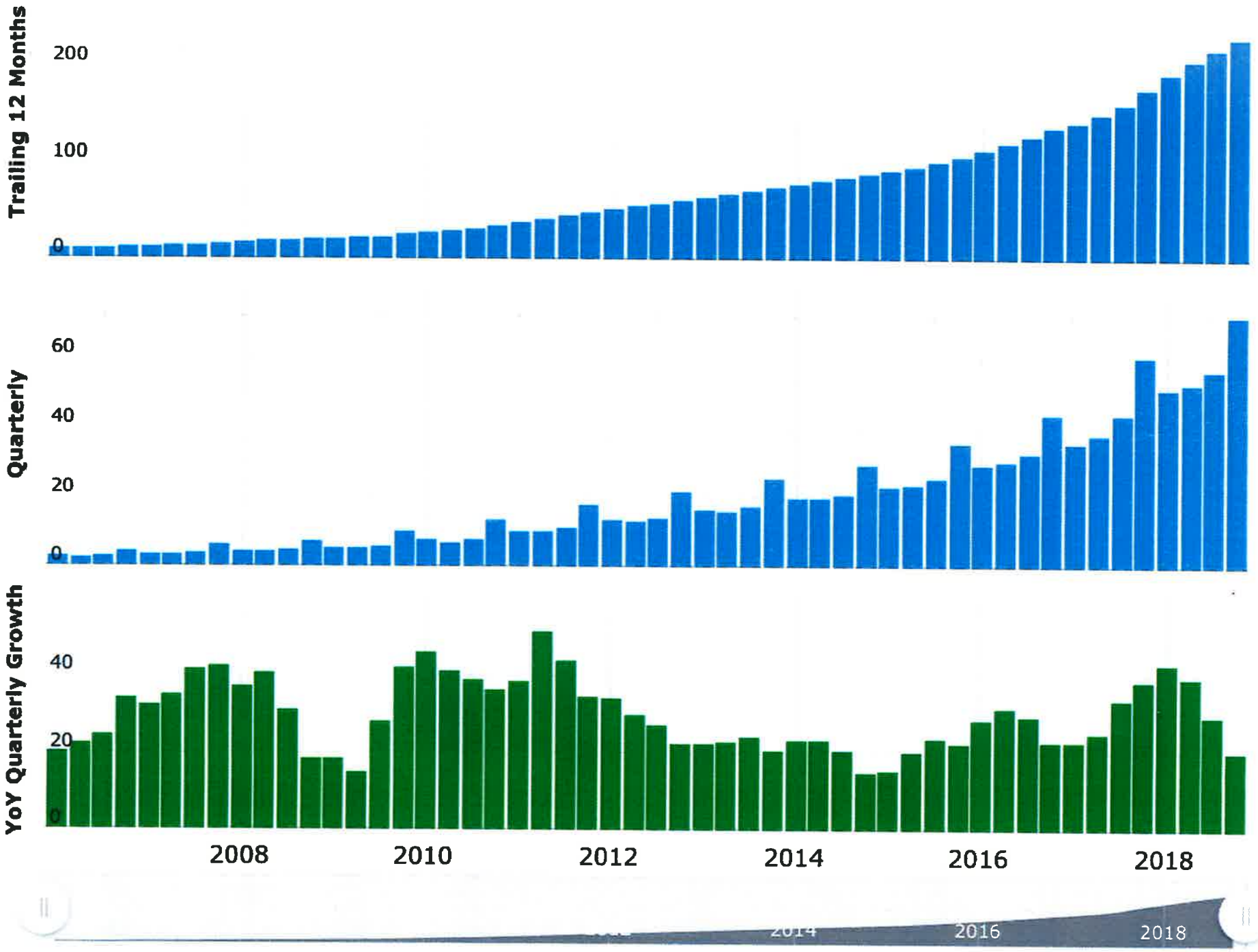
9) GOOG - $\frac{1174.9 - 1192.53}{1192.53} = \frac{-17.63}{1192.53} = -0.014 = -1.4\%$ decrease

10) FB - $\frac{166.39 - 170.17}{170.17} = \frac{-3.78}{170.17} = -0.022 = -2.2\%$ decrease

43

In the process of watching 10 different market stocks, never did I expect a market to have better stock than Amazon, and I was correct. I would definitely put money in Amazon. Watching their stocks each and every day proved to me that Amazon is a very reliable and trustworthy company to put money in. Never in these 14 days did their stock drop drastically. Amazon was founded in 1994 by Jeff Bezos. He gave it the name Amazon because he wanted to give the company a name that started with an 'A' and he wanted it to be unique. When it was first launched in 1995, it only sold books, but now it is the largest e-commerce marketplace in the world.

From: 03/31/2006 To: 01/01/2019 Zoom: 1Y 2Y 3Y 5Y All



Amazon Revenue 2006-2018 | AMZN

Amazon annual/quarterly revenue history and growth rate from 2006 to 2018. Revenue can be defined as the amount of money a company receives from its customers in exchange for the sales of goods or services. Revenue is the top line item on an income statement from which all costs and expenses are subtracted to arrive at net income.

- Amazon revenue for the quarter ending December 31, 2018 was **$72.383B**, a **19.73% increase** year-over-year.
- Amazon revenue for the twelve months ending December 31, 2018 was **$232.887B**, a **30.93% increase** year-over-year.
- Amazon annual revenue for 2018 was **$232.887B**, a **30.93% increase** from 2017.
- Amazon annual revenue for 2017 was **$177.866B**, a **30.8% increase** from 2016.
- Amazon annual revenue for 2016 was **$135.987B**, a **27.08% increase** from 2015.

40

Amazon Annual Revenue (Millions of US $)		Amazon Quarterly Revenue (Millions of US $)	
2018	$232,887	Q4 2018	$72,383
2017	$177,866	Q3 2018	$56,576
2016	$135,987	Q2 2018	$52,886
2015	$107,006	Q1 2018	$51,042
2014	$88,988	Q4 2017	$60,453
2013	$74,452	Q3 2017	$43,744
2012	$61,093	Q2 2017	$37,955
2011	$48,077	Q1 2017	$35,714
2010	$34,204	Q4 2016	$43,741
2009	$24,509	Q3 2016	$32,714
2008	$19,166	Q2 2016	$30,404
2007	$14,835	Q1 2016	$29,128
2006	$10,711	Q4 2015	$35,746