

MODULE 2 - UNIT 3: WHAT MAKES A GOOD BUSINESS?

Welcome to Unit 3! Now that you have learned many of the basics of sound investing it is time to start digging deeper. Throughout the next units, you will be gaining substantial knowledge enabling you to make sound investment decisions. You will gain confidence as you work through the YIS units.

DESCRIPTION

Unit 3 will teach students the importance of economic moats. Students were introduced to the concept of economic moats in Unit 2. In Unit 3, students will learn how to identify the different types of moat and understand the concept of wide and narrow moats. Unit 3 includes several fun activities to help students gain confidence in identifying moats and applying their knowledge to investing situations.

CORE OBJECTIVES

Lesson One: How do I know if a company is a good business?

- Recognize and explain the characteristics that define a good business.
- Explain the importance of Return on Investment (ROE).

Lesson Two: Whatever Floats Your Moat

- Identify the main types of "economic moats" or competitive advantages that companies have.
- Understand the link between a good investment and a good business.

Lesson Three: Predict the Future

 Correctly predict which companies are most likely to succeed over the long run.

LENGTH

Approximately 90 minutes, split up into three (3) 20 to 40-minute lessons.



CONTENT STANDARDS

LESSON ONE

D2.ECO.1.9-12. Analyze how incentives influence choices that may result in policies with a range of costs and benefits for different groups.

CCSS.ELA-LITERACY.RI.11-12.7

Integrate and evaluate multiple sources of information presented in different media or formats (e.g., visually, quantitatively) as well as in words in order to address a question or solve a problem.

CCSS.ELA-LITERACY.SL.11-12.1

Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grades 11-12 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively. CEE NATIONAL STANDARDS FOR FINANCIAL LITERACY (councilforeconed.org) Standard V: **Financial Investing** Financial investment is the purchase of Financial assets to increase income or wealth in the future. Investors must choose among investments that have different risks and expected rates of return. Investments with higher expected rates of return tend to have greater risk. Diversification of investment

LESSON TWO

D2.ECOo.3.9-12. Analyze the ways in which incentives influence what is produced and distributed in a market system.

CCSS.ELA-LITERACY.RI.11-12.7

among a number of choices can lower investment risk.

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LESSON THREE

D2.ECOo.3.9-12. Analyze the ways in which incentives influence what is produced and distributed in a market system.

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Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grades 11-12 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.



ADDITIONAL RESOURCES

- Access to Computers and Internet is preferred, but not required
- YIS Website <u>www.yis.org</u> curriculum, videos and lesson plans
- YIS Glossary of Terms (full database at yis.org/resources)
- Zacks.com for company research including ratios and screens
- Morningstar.com -- for company research including ratios and screens
- Gurufocus.com -- for company analysis
- Y-Charts for company analysis and stock graphs.
- Wallstreetsurvivor.com -- for basic stock concepts
- Yahoo Finance and Yahoo Finance App -- for stock charts and basic company information
- Greenblatt, Joel. The Little Book That Beat the Market.
- Guest Speakers -- Write <u>Contact@yis.org</u> if you want help arranging a financial professional to come to your class
- Seeking Alpha online portal of stock research reports (www.seekingalpha.com)
- Motley Fool great daily content and stock picks (www.motleyfool.com)
- Investopedia.com the "Wikipedia" of Investing, great online glossary of terms
- Stockcharts.com for tracking stock market performance and comparison between stocks.



LESSON ONE: HOW DO I KNOW IF A COMPANY IS A GOOD BUSINESS?

OVERVIEW

The first lesson of Unit 3 will introduce students to the concept of Return on Investment (ROE). Students will learn how a high ROE leads to market forces will react to reduce those returns. Students will be reintroduced to the concept of economic moats.

LESSON SUMMARY

Warm-up: Students will discuss examples of companies that fail.

Learning Activity: Students will participate in a game simulating the effect of market forces on high ROE.

Wrap-Up: Students will illustrate understanding of the basic concept of an economic moat by giving examples of economic moats.

OBJECTIVES

Students will be able to:

- Recognize and explain the characteristics that define a good business.
- Explain the importance of Return on Investment (ROE).

MATERIALS AND PREP

- Copies of Handout 3.1
- YIS Prezi Unit 3.1

RESOURCES

YIS Website www.yis.org



TEACHING GUIDE

Warm-Up: Ten Minutes

- 1. Prior to this class, assign each student the following task: Research one company that has gone bankrupt or failed in the past 20 years and briefly write down the reason why the failure occurred.
- 2. Have Prezi Unit 3.1 up when students enter the classroom.
- 3. Students will break into small groups of four and take turns presenting the company they researched to the group.
- 4. When groups are finished, explain that given the examples shared in the groups it is clear that many successful businesses eventually fail.
- Ask students to discuss in their groups why they think some businesses succeed while others fail. Each group should share one thought with the class.
- Ask students to discuss in their groups how we can identify the winners from the losers for investment purposes. Each group should share one thought with the class.
- 7. Explain to students that they will be learning some methods for identifying successful businesses in this unit.

Learning Activity: 20 minutes

- 1. Pass out the Candy Shop Character sheets from Handout 3.1. If there are not enough students, some can have two characters. If there are too many students, there can be multiple investors or customers.

 This activity
- Ask students to take a few minutes to read their character sheets.
- 3. Using the information on their character sheets, each student will tell the class who they are and what they are hoping to accomplish.

can be independently led by a student leader.

- 4. Complete the scenarios in Handout 3.1 as a class or as smaller groups.
- 5. Once the scenarios have been discussed, break into smaller groups to discuss the discussion questions and then discuss them as a class.
- 6. Explain to students that any time a business like a candy shop earns exceptionally high returns, forces will come in to reduce those returns. If a shop is earning a 50% return on capital, like a magnet, this will attract more people to open candy shops, charge lower prices, advertise more, and eventually those returns will be reduced. High returns end up being whittled down to average over time. Unless, however, this company has something unusually powerful that others can't imitate. Warren Buffett



LESSON ONE: HOW DO I KNOW IF A COMPANY IS A GOOD BUSINESS?

called this an **"economic moat"**. The best companies are the ones that provide high returns on capital, but are also able to protect and grow those returns through a unique protection (moat) that makes it very difficult for competitors to take them away.

Wrap-Up: Ten minutes

- 1. Ask students to work together in pairs to come up with five ideas for economic moats for either the candy shop or the rat shop.
- 2. Have each pair share their ideas with the whole class.
- 3. Pass out copies of the Kodak article and ask students to read before the next meeting.

http://blogs.wsj.com/source/2012/02/26/the-demise-of-kodak-five-reasons/



Handout 3.1

Copy the following roles for students. Pass out one role to each student and then complete the attached activity.

Candy Store Owner: You recently opened a candy store and it has been wildly successful. You need \$2000 to get the business up and going and your profits will be \$1000 a year according to your research. This means a 50% ROE. You need to raise \$1000 from investors to keep your shop running.

Rodent Store Owner: You opened a store specializing in rodent pets. So far, business has been slow, but you are dedicated to sharing your love of rats with the world. You need \$2000 to get the business up and going and your profits will be \$40 a year according to your research. This is a 2% ROE. You need to raise \$1000 from investors to keep your shop running.

Investor: You have two friends who are each opening up a business and would like you to invest \$1000. Listen to their pitches and predicted profits and decide which business you will invest in. You are looking for a business with a high ROE and want to keep your personal feelings out of your decision.

Ice Cream Shop Owner: A candy store has opened in your neighborhood and people are going crazy over it. You have always just sold ice cream, but people seem to be very interested in a candy option. You are losing business to the candy store and need to decide how to compete.

Grocery Store Owner: A candy store has opened in your neighborhood and people are going crazy over it. You have always had limited candy options, but people seem to be very interested in a variety of candy. You are losing business to the candy store and need to decide how to compete.

Pet Shop Owner: You heard about a new pet rat shop in town. You have a limited selection of rats, but don't sell too many of them. The rat shop is barely getting by. You are not losing any business to the rat store and need to decide if you have to increase your rat selection to compete.

Sugar Crusader: You are a talented doctor out on the public speaking circuit and are dedicated to fighting the evils of sugar consumption. You have a big speech scheduled in a town where a new candy shop has opened up. You will convince people in the town to stop eating sugar.

President of Rat Owners of America: You have been promoting rats as a great alternative pet for people with allergies for many years and the public is starting to catch on. A new rat pet store has opened in your home town and you are



starting a public relations campaign to convince people of the benefits of rats as pets.

Candy Customer: You love candy and are excited about the new candy shop opening up in town. You plan on shopping there as long as it's the best deal in town.

Pet Owner: You're in the market for a new pet. There's a new store only selling rats in town and you're curious if it will make a good pet. You really aren't sure what you want, but can be swayed.

Candy Shop or Rat Shop Activity Instructions

Activity Introduction: Using the information on your piece of paper, introduce yourself to the class explaining who you are and what you are hoping to accomplish.

Scenario 1: Decision time is here for our investor. The candy shop owner and the rat shop owner each have 30 seconds to convince the investor to give them \$1000. The investor must decide and then explain his/her reasoning.

Scenario 2: Six months have passed and the candy store is doing amazing. There are lines around the block and people are waiting for up to an hour to get in. Each character should briefly share what action they are going to take after hearing this news.

Scenario 3: A year has passed since both shops opened up and the investors invested. Turns out, rats are more popular than first thought. There is a real opportunity for the rat pet store to make good money on the trend. Each character should briefly share what action they are going to take after hearing this news.

Discussion Questions: When the scenarios have been fully discussed, break into small groups to discuss the following questions:

- 1. If Wal-Mart/PetSmart decided that Candy Shops and pet rats were a great high-return business, would their shops be better, the same, or worse than the shops in our activity? What do you think would happen to the return on capital if Wal-Mart/PetSmart is now a direct competitor?
- 2. What could the smaller candy shop and rat shop do to protect their businesses?



LESSON TWO: WHATEVER FLOATS YOUR MOAT

OVERVIEW

In the second lesson of Unit Three, students will gain a basic understanding of the different types of economic moats and what happens when businesses do not have economic moats. Students will practice identifying types of economic moats and develop an understanding of the relationship between a good investment and a good business.

LESSON SUMMARY

Warm-up: Students will read about companies lacking economic moats.

Learning Activity: Students will identify the different types of moats and research the economic moats of a variety of businesses.

Wrap-Up: Students will use their own knowledge to identify companies with wide moats, narrow moats, and no moats.

OBJECTIVES

Students will be able to:

- Identify the main types of "economic moats" or competitive advantages that companies have.
- Understand the link between a good investment and a good business.

MATERIALS AND PREP

- Internet access
- Computers or smartphones for research
- Copies of Handout 3.2
- YIS Prezi Unit 3.2

RESOURCES

YIS Website www.yis.org



TEACHING GUIDE

Warm-Up: Ten Minutes

- 1. Have Prezi 3.2 up when students enter the classroom.
- 2. Ask students to take out the Kodak article http://blogs.wsj.com/source/2012/02/26/the-demise-of-kodak-five-reasons/
- 3. Divide students into groups to discuss the article. Student discussion should focus on the following questions.

Why did Kodak declare bankruptcy?

Do you think Koday could have prevented this demise? How?

4. Give students examples of other companies which have failed because of a lack of an economic moat. For example, IBM had a huge share of the PC market at one time, Netscape was the number one internet browser, General Motors dominated car sales but had to declare bankruptcy, and Corel was once a well-known word processing software.

Learning Activity: 20 minutes

- 1. Pass out Handout 3.2.
- 2. Students may work in partners or groups to complete the handout and will need computer access or smartphones to research.
- 3. Allow students 15 minutes to complete the handout. Circulate during activity to help answer questions and keep on task.
- 4. Review the answers to Handout 3.2 with entire class.

Wrap-Up: Ten minutes

- 1. Ask students to form groups of three.
- 2. Groups should work together to answer the following questions. They may use examples from previous classwork or come up with new ideas.

Name one business that you think has a "wide moat"? (one that is unlikely to have its competitive market position eroded 10 years from now). **Answer:** Many examples: Coca Cola (brand), Apple (brand, high switching costs), Exxon (low-cost oil), Google (network effect), Heinz (brand), Nestle (brand) are a few examples.

Name one business that you think has a "narrow moat" (one that has a good business today, but whose high returns are unlikely to last 10 years from now). **Answer:** Example include "hot products" such as FitBit, Biotech pharmaceutical companies that have "one-hit wonder" drugs, Zynga (mobile



games), Target or most fashion retailers are here today gone tomorrow.

Name one business that you think has "no moat" (one that is a highly competitive, bad business today and in the future as well). **Answer:** Examples include most fad companies, airlines, price competitive retailers such as Best Buy, commoditized tech companies, most resource and materials companies, unless they can retain their low cost advantage. Often companies that are heavy on fixed assets (capital is the denominator) find it harder to make an exceptional return on capital.

3. Each group will briefly present their businesses to the class and explain why they chose each one.



Handout 3.2

Types of Economic Moats

- **Intangible Assets:** A company can have intangible assets, like brands, patents, or regulatory licenses that allow it to sell products or services that can't be matched by competitors.
- **High Switching Costs:** The products or services that a company sells may be hard for customers to give up, which creates customer switching costs that give the firm pricing power.
- Network Effect: Some lucky companies benefit from network economics, which is a very powerful type of economic moat. It says that the more people you have on your platform or in your distribution system, the better the value for them, which creates a virtuous cycle.
- **Low Cost Advantage:** Finally, some companies have cost advantages, stemming from process, location, scale, or access to a unique asset, which allow them to offer goods or services at a lower cost than competitors.

The following companies have stood the test of time, which probably indicates they have some sort of economic moat. Using the list about, identify what their economic moats are. There can be more than one per company and make sure to explain your. e

ence.
1) Coca Cola
2) Rank of America

Bank of America

3) Google



4) Wal-Mart

5) Exxon Mobil

LESSON THREE: PREDICT THE FUTURE

OVERVIEW

During the third lesson of Unit Three, students will review the types of economic moats from the previous lesson. They will apply their knowledge of economic moats by making predictions about successful companies.

LESSON SUMMARY

Warm-up: Students will list companies with strong economic moats.

Learning Activity: Students will play a game to practice applying their knowledge of economic moats to predicting a company's potential for success.

Wrap-Up: Students will create a list of attractive investment ideas using knowledge of economic moats.

OBJECTIVES

Students will be able to:

 Correctly predict which companies are most likely to succeed over the long run.

MATERIALS AND PREP

- Internet access
- Computers or smartphones for research
- Copies of Handout 3.3
- YIS Prezi Unit 3.3

RESOURCES

YIS Website www.yis.org



TEACHING GUIDE

Warm-Up: Ten Minutes

- 1. Have Prezi 3.3 up when students enter.
- 2. Have this chart on the board, on paper, or on the smart board.

Intangible Assets	High Switching Costs	Network Effect	Low Cost Advantage

- 3. Divide students into equal sized groups. Assign each group a color. This can be a marker, post-it notes, or font on the smart board.
- 4. The groups will race against each other to fill in the chart with examples of companies that possess each type of economic moat. Once one group has put down a company on the chart, another group cannot put the same one up in the same column. Remember some companies have more than one type!
- 5. Give students five minutes to add companies. At the end of five minutes, the group with the most companies on the chart wins.

Learning Activity: 20 minutes

Introduction:

- 1. Have students break into groups of four.
- 2. Explain to students that good businesses have something unusual about them. They retain their advantage for many years because they have unique characteristics such as a product or brand image that cannot be replicated.
- 3. Tell students to imagine it is the year 2005. Youtube and Facebook have just launched. American Idol was brand new and Brad Pitt was married to Jennifer Anniston.
- 4. If students had to guess which of the two companies below would keep their return on capital (ROE) over the next decade in line or higher than the previous 10 years, which would they choose?

Apple: 13.7% ROE (1995-2004)

Company Background: Makes computers, phones, sells software

and apps, and operates retail stores



Or

Hewlett Packard: 12.2% ROE (1995-2004)

Company Background: The largest computers company in the worlds. Also sells software services

- 5. Have student groups take a minute to discuss and debate the question in their groups. Each group will give their answer with explanation.
- 6. Explain to students that the answer is Apple. Explain to students the following reasons for Apple's dominance.
 - a. Apple increased from 13.7% to 30.9% return on equity (ROE) compared with HP whose ROE decreased from 12.2% to 10%.
 - b. People like iPhones more than PCs, and Apple has a much stronger brand image, ecosystem around its products, and quality of design than HP.
 - c. Apple benefits from the economic moats of a **strong brand** (they price their products at a premium) and **high switching costs** (the Apple ecosystem makes it costly to switch to Android or Windows once you've bought movies, music and apps on iTunes).
 - d. Stock performance follows company performance, so Apple's stock increased 975% while HP increased by 40% over the time period.

Learning Activity:

- 1. Each group should select one person to act as portfolio manager and the rest of the group members will be stock analysts.
- 2. Distribute Handout 3.3 and give groups 15 minutes to make their choices.
- 3. Each portfolio manager will present their group's decisions and rationale to the class.

Wrap-Up: Ten minutes

- 1. Review the correct answers with the class. Each group should keep track of which ones they got correct and which ones were incorrect.
- 2. Each group should take five minutes to discuss where they went right and where they went wrong with their predictions.



Handout 3.3

Situation:

The year is 2005, and Aliens have invaded earth! They are going to destroy every human in the world, except they notice something they don't understand: how is it possible that some imaginary creatures, called "Companies" can be so dominant. They assume it will lead them to universal domination if they can discover the secret. So they make all humans a wager: if anyone is smart enough to know the secret of how to identify what companies will continue to make the same or higher return on equity over the next decade, then you get to live. If you can't, you die!



You will have a series of four tests. Only one of the two companies on each list could be defined as highly defensible, exceptional businesses that can protect its return on capital. Can you identify it? Your life depends on it. The aliens want to speak to "your leader" so you should debate on what to pick within the club, and eventually the portfolio manager will decide which stock to choose for the group. Ready earthlings!? Here are some guestions to consider as you debate the companies:

- What were the main things that happened to each company during the next decade (2005-2014)?
- What could you identify as each company's moat?
- Did demand for what they are selling increase or decrease?
- What makes one company more resilient than another?
- What is it about that businesses that makes them sticky? Is one "stickier" than the other?

1:

Walt Disney: 12.6% (1995-2004)



Company Background: Operates Theme Parks, Makes Movies, Sells Merchandise, owns ESPN Networks and Disney Channel.

2005-2014: ?

Nintendo: 15.1% (1995-2004)



Company Background: Makes video game systems, video games, including Nintendo Wii, and Nintendo DS.

2005-2014: ?



2:

Abercrombie & Fitch: 55.0% (1995-2004)



Company Background: The most popular clothing retailer for teenagers, with very strong brand appeal

2005-2014: ?

3:

Southwest Airlines: 13.2% (1995-2004)



Company Background: A well-run airline that is known for low-cost airfare.

2005-2014: ?

4:

Microsoft: 25.2% (1995-2004)



Company Background: Maker of Computer Software: Windows, Microsoft

Office and Xbox Vid. 2005-2014: ?

Coca Cola: 17.9% (1995-2004)



Company Background: The leading beverage company in the world with the brands Coca Cola, Sprite, Fanta, PowerAde

2005-2014: ?

McDonalds: 17.1% (1995-2004)



Company Background: The leading fast food operator in the world.

2005-2014: ?

Verizon: 20.8% (1995-2004)



Company Background: Leading cell phone operator in the US. Operates cable and fiber optic networks.

2005-2014: ?

ANSWER KEY

Handout 3.1

- 1. Wal-Mart would likely be a formidable competitor to Jack's Candy Shop. They would have greater buying power from the Candy companies so they could likely achieve lower prices, and their nationwide rollout would create brand presence, leveraging Wal-Mart's "Every day low price" reputation they have built over decades. In general, the Candy business has little barriers to entry, which will make for a more competitive market for Jack. This makes defending Jack's current profitability difficult and it appears unlikely that he could maintain those exceptional returns on equity and profitability metrics. That being said, Jack may have a couple of attributes that Wal-Mart may not be able to match, such as a specialized, exclusive, or local candy, being closer to the customer, and creating a nostalgic brand to compete against Wal-Mart's "Big Box retail" brand. But, more likely than not, Jack's returns are going to come down. Candy Stores don't have much of a barrier to entry.
- 2. Answers will vary.

Handout 3.2

- 1) Coca Cola Brand, Network Effect (Distribution around the world)
- Bank of America High Switching costs, (It's a pain to switch banks, so most people don't).
- 3) Google Network Effect (the more people that use Google search, the better it becomes)
- 4) Wal-Mart Low Cost (Wal-Mart's buying power allows them to buy products at the lowest cost) and Network Effect (Superior distribution and supply chain).
- Exxon Mobil Low Cost (Exxon has low-cost oil fields that make money in almost any oil price)

Handout 3.3

Question 1: Walt Disney vs. Nintendo?

Answer: Walt Disney

Results: Walt Disney went from 12.6% ROE (1995-2004) to 13.01% (2005-2014) while Nintendo went from 15.1% ROE (1995-2004) to 9.4% (2005-2014). The stock prices? Disney was up 298% and Nintendo was down 11.5%.

YOUNG INVESTORS SOCIETY **Rationale:** Walt Disney Corporation has a strong brand of characters and theme parks; not to mention that ESPN is the most profitable television stations in the world. Their **brands** are about as strong as they come, just ask any kid under the age of 10. Nintendo, on the other hand, does have a decent brand, but video games are a hit and miss business. Nintendo actually lost money in 2011 and 2013 because of poor sales.



Comparative Stock Charts using StockCharts.com

Question 2: Abercrombie & Fitch vs. Coca Cola?

Answer: Coca Cola

Results: Coca Cola went from 17.9% ROE (1995-2004) to 29.5% (2005-2014) while Abercrombie & Fitch went from 55% ROE (1995-2004) to 16.4% (2005-2014). The stock prices? Coca Cola was up 110% and Abercrombie & Fitch was down an astonishing 56%.

Rationale: Coca Cola is probably one of the strongest **brands** ever built. They also have a **distribution advantage** (network effect) throughout the world as they dominate the soft drinks industry with over 50% of global sales.

Abercrombie & Fitch is a clothing retailer, which is a very difficult business. Just think about going into a mall, there are hundreds of competitors, and the viability of the business in the future depends on staying "cool" and being on the cutting edge of fashion. Very tough to predict given the high amount of competition.



Both companies would have a "brand" but this shows that one brand is much stronger than the other.



Comparative Stock Charts using StockCharts.com

Question 3: Southwest Airlines vs. McDonalds?

Answer: McDonalds

Results: McDonalds went from 17.1% ROE (1995-2004) to 29.3% (2005-2014) while Southwest Airlines went from 13.7% ROE (1995-2004) to 7.5% (2005-2014). The stock prices? McDonalds rose 178% and Southwest Airlines actually held in there ok, up 157%.

Rationale: Although you might not care for Big Macs, McDonalds is still a legendary brand, especially overseas where it is a symbol of the American lifestyle. Their greater scale also enables them a cost advantage relative to other fast food chains. Southwest Airlines, is the best of a really terrible business: Airlines. It's an example of the investment adage "it's better to bet on a good horse than a good jockey," meaning a bad business with great managers is likely a losing bet. Airlines are capital intensive (planes are expensive!) and are highly competitive on price. During this decade, Delta Airlines, Continental, and American Airlines all went bankrupt, so at least Southwest didn't go bankrupt.





Comparative Stock Charts using StockCharts.com

Question 4: Microsoft vs. Verizon?

Answer: Microsoft

Results: Microsoft went from 26.2% ROE (1995-2004) to 35.1% (2005-2014) while Verizon went from 21.2% ROE (1995-2004) to 15.0% (2005-2014). The stock prices? Microsoft rose 78% and Verizon rose 73%.

Rationale: Microsoft benefits from one of the most powerful economic moats, the network effect. People use their office products (Microsoft Word, Excel) because everyone else does, which makes it the standard. Windows is also the standard operating system for most businesses. One could argue that Microsoft was one of the poorest run companies during this decade (throwing away billions of dollars into Nokia, mobile phones, Bing), but it didn't matter. The network effect was too powerful for even incompetent management to break. Verizon, is not a bad business, with a pretty good brand and a network effect (the more friends and family that are on Verizon the more valuable it is to you), but owning fiber optic cables and towers is a very capital intensive business so high returns are tougher to sustain. Not to mention Verizon was late to get the iPhone.





It could also be useful to have the students go to Zacks.com and research the company's income statement and financial ratios over time, and see which ones were the most stable.

