Lesson/Unit Title	"Financial Planning: Are You the Next Warren Buffet?"		
Day(s)	6		
Grade Levels	10-12		
Curriculum Areas	Economics and/or Personal Finance		
Curriculum Areas Website(s)	Economics and/or Personal Financehttp://philanthropy.ml.com/ipo/volunteer/pdf/level3strategy1.pdfThinking Ahead: Developing a Financial Plan15 strategyworksheet for financial planning by Merrill Lynch:Strategy 1: Developing a Financial PlanStrategy 2: BudgetingStrategy 3: Risk, Reward and ReturnStrategy 4: You, Your Job and Your CareerStrategy 5: Where's the Money? Financial OpportunitiesStrategy 6: Investment OptionsStrategy 8: Saving for EducationStrategy 9: The Future Value of MoneyStrategy 10: All You Need to Know About CreditStrategy 12: Economic Factors that Drive InvestmentsStrategy 13: The Benefits of Philanthropy		
	<i>Strategy 14</i> . International Currencies <i>Strategy 15</i> : Leadership: Taking Charge Of Your Life "Money Math Lessons for Life" Lesson Plans www.publicdebt.treas.gov/mar/marmoneymath.htm <i>Money Math: Lessons for Life</i> —91 pages of downloaded lesson plans incorporating Math and Financial Planning, including link to power point introducing curriculum to educators		
	www.publicdebt.treas.gov/mar/marmmath.pdf Four in-depth <i>Money Math</i> lessons include: Lesson 1 The Secret to Becoming a Millionaire Students learn how saving helps people become wealthy. They develop rules to become millionaires as they work through a series of exercises, learning that it is important to (1) save early and often, (2) save as much as possible, (3) earn compound interest, (4) try to earn a high interest rate, (5) leave deposits and interest earned in the account as long as possible, and (6) choose accounts for which interest is compounded often. This lesson assumes that students have worked with percents and decimal equivalents.		
	Lesson 2 Wallpaper Woes Students hear a story about Tom, a middle-school student who wants to redecorate his bedroom. They measure the classroom wall dimensions, draw a scale model, and incorporate measurements for windows and doors to determine the area that could be covered by wallpaper. Students hear more about		

Tom's re-decorating adventure, learn about expenses, budget constraints, and trade-offs. This lesson requires that students know how to measure, or a review may be necessary before teaching.
Lesson 3 Math and Taxes: A Pair to Count On Students examine careers and reflect on how workers use math in their occupations. They study selected occupations, learning about the work skills (human capital) that different workers possess and salaries that those workers earn. Next, students learn how taxes are paid on income that people earn and how income tax is calculated. They learn how the progressive federal income tax is based on the "ability-to-pay" principle.
Lesson 4 Spreading the Budget Students develop a budget for a college student, using a spreadsheet. They examine the student's fixed, variable, and periodic expenses and revise to adjust for cash flow problems that appear on the first spreadsheet. This lesson is designed to increase student awareness and appreciation of the efficiency of using computer technology in math applications.
www.fl2010.org/rightnav/customize.cfm "Personal Finance in the Economics Classroom." Financial Literacy's website allows you to customize FREE download- able teaching lessons. Go to above website, enter your data, "submit," and download the entire booklet of lessons!
Units relating to Financial Planning include Unit 2: "Decision Making in Saving and Investing," Unit 3: "Investment Choices and Information," and Unit 5: "Financial Planning." Math applications, tables and worksheets are incorporated into many of these units.
www.econedlink.org/lessons/index.cfm?lesson=EM515&pag e=teacher "Climbing the Savings Mountain" and other financial planning lesson plans for teachers
www.orangekids.com/amy/save_bm_003.htm# Difference between simple & compound interest (site appropriate for elementary/middle school)
Online Savings Calculator http://apps.nasd.com/investor_information/calculators/save andinvest/savingscalc.aspx Use this online calculator to see how a consistent approach to saving can make your money grow!
Savings Bonds www.econedlink.org/lessons/index.cfm?lesson=EM385 Buy A Bond, James!

	Savings Bonds			
	www.publicdebt.treas.gov/sav/savkfun.htm			
	Fun Facts about Savings Bonds			
	www.publicdebt.treas.gov/sav/savbond.htm			
	What a Bond Looks Like!			
	www.publicdebt.treas.gov/sav/savcalc.htm			
	What's My Bond Worth? Bond Calculator			
	www.publicdebt.treas.gov/sav/sbkwdsch.htm			
	Savings Bond Word Search game			
	www.publicdebt.treas.gov/sav/sbkscram.htm			
	Savings Bond Word Scramble game			
	www.publicdebt.treas.gov/sav/savkglos.htm			
	Savings Bond Vocabulary Glossary			
Teacher Resources	Learning, Earning, and Investing, NCEE (National Council on			
	Economic Education.) 2004© ISBN: 1-561983-570-2. Refer			
	to Theme 1 "Basics of Financial Investing" and Theme 3			
	"Financial Planning" units in Lesson 12 of text (Charlayne vs.			
	Marcus readings on investing)			
	Practical Business Math Procedures, 8 th Edition. Jeffrey Slater,			
	author. McGraw-Hill/Irwin Publishing, 2006© ISBN: 0-07-			
	313308-6 student edition and ISBN 0-07-313267-5 teacher ed.			
Unit Overview	Daily Lesson Overview:			
	Day 1: Introduce 3 rules for building wealth. Start early!			
	Day 2: Compare/contract simple vs. compound interest			
	Day 3: Buying and holding investments			
	Day 4: Diversifying your investments			
	Day 5: Differentiate between "risk" vs. "return on investment"			
	Day 6: Guest speaker			
Nebraska Frameworks	BE 12.2 Communication Essential Learning			
Essential Learnings	Example Indicators:			
	Discussion—participate in and lead group discussions			
	Listening—demonstrate active listening			
	Research Writing—use relevant, reliable print and electronic			
	resources to create necessary notes, outlines and reference			
	citations			
	BE 12.3 Computation Essential Learning			
	Example Indicators:			
	Savings and investments—use mathematical procedures to			
	calculate the purchase price of stock and bond transactions,			
	compute interest and compare rates of return on investments			
	DE 12.4 Computer Applications Essential Learning			
	Example indicators:			
	<i>Application software</i> —use application software (word			
	Tachnology research use offective online information			
	resources to support research			
	RE 12 5 Economics/Descend Finance Eccential Learning			
	E 12.5 Economics/1 ersonar r mance Essentiar Learning Eventse Indicators:			
	Example Indicators:			

	Banking and Financial Services—identify financial services			
	and resources (financial accounts, electronic banking)			
	<i>Risk Management</i> —summarize choices available to consumers			
	for protection against risk and financial loss			
	Saving and Investing—evaluate saving and investment options			
	to meet short-and long-term goals, including knowledge of			
	presents and future value of money			
Link to Nebraska Standards	12.4.25 Students will explain the impact of monetary and fiscal			
	policy in achieving local state and national economic goals			
	12.4.27 Students will discuss develop and implement a plan			
	for making informed personal economic decisions			
NREA Curriculum	Parsonal Financa:			
Standards	I Personal Decision making Achievement Standard: Use a			
Stanuarus	II. <i>Tersonal Decision making</i> —Achievement Standard. Use a			
	rational decision-making process as it applies to the roles of			
	W Saving and Investing Achievement Standard: Evaluate			
	IV . Saving and investing—Achievement Standard. Evaluate			
	savings and investing to meet short-and long-term goals.			
	VI. Banking—Achievement Standard: Evaluate services			
	provided by financial deposit institutions to transfer funds.			
National Economics	Standard 2: Marginal costs/marginal benefits—Effective			
Standards	decision making requires comparing the additional costs of			
	alternatives with the additional benefits. Most choices involve			
	doing a little more or a little less of something: few choices are			
	"all or nothing" decisions.			
	Standard 10: Role of economic institutions—Institutions			
	evolve in market economies to help individuals and groups			
	accomplish their goals. Banks, labor unions, corporations, legal			
	systems, and not-for-profit organizations are examples of			
	important institutions. A different kind of institution, clearly			
	defined and enforced property rights, is essential to a market			
	economy.			
	Standard 12: Role of interest rates—Interest rates, adjusted for			
	inflation, rise and fall to balance the amount saved with the			
	amount borrowed, which affects the allocation of scarce			
	resources between present and future uses.			
National Personal Finance	Standard 4: Saving and investing—Achievement Standard:			
Standards	Evaluate savings and investment options to meet short-and			
	long-term goals			
Nebraska Math Standards	12.2.1 Students will solve theoretical and applied problems			
	using numbers in equivalent forms radicals exponents			
	scientific notation absolute values fractions decimals and			
	scientific notation, absolute values, fractions, decimals, and			
	percents, ratios and proportions, order of operations, and			
Topohing Stratogics	Day 1 Students will understand the advantages of serving control			
Dropodurog and A stivition	Stan 1: Ballringer: Introduce "2 rules for building wealth"			
r rocedures and Activities	Step 1. Denninger. Introduce 5 fules for building wealth Step 2: Use Viewels 2 & 2 (Do 140, 150) of Learning Forming 6			
	Step 2. Use visuals 2 & 5 (Pg 149-150) OI Learning, Earning &			
	<u>investing</u> to snow accumulated wealth. Begin discussing			
	compound interest.			
	Step 3: Use Activity I (Pg 166-1/2) of Learning, Earning &			
	Investing to explain why saving early is important.			

<i>Step 4:</i> Students use Merrill Lynch worksheet to set financial goals for themselves. Discuss those together.
 Day 2 Students will demonstrate their understanding of the difference between simple and compound interest by satisfactorily completing interest problems mathematically <i>Step 1:</i> Review 3 steps as bell ringer. Review how Charlayne became a millionaire over time (Chapter 12 of Learning, Earning & Investing). <i>Step 2:</i> Discuss Marcus' situation. (Visuals 5 & 6, Pg 152-153 of Learning, Earning & Investing). Why he didn't accumulate wealth like Charlayne? <i>Step 3:</i> Use Practical Business Math Procedures text (Pg. 303-04) to explain difference between simple & compound interest. <i>Step 4:</i> Students use website to learn the difference between simple & compound interest www.orangekids.com/amy/save_bm_003.htm#
 <u>Day 3</u> Students will explain why "buying and holding" are important in long-term investing. <i>Step 1:</i> Review 3 steps for bell ringer and review simple vs. compound interest. <i>Step 2:</i> Begin 2nd step—"Buy and Hold." Use Visual 7 and Activity 1-Rule 2 of Learning, Earning & Investing to explain.
 Step 3: Discuss Visual 8 "Stock Market Roller Coaster" of Learning, Earning & Investing to encourage students to invest for long term. Day 4 Students will explain/discuss why diversifying investments is important in building wealth Step 1: Review 1st and 2nd step in building an investment. Step 2: Focus on step 3—diversity. Step 3: Finish Activity 1 with Rule 3. Step 4: Use visual 9 to show students different types of investments. Activity 2 has the benefits & downfalls of different types of investments. Discuss savings accounts, cd's, bonds, stocks, real estate. Step 5: Use Visual 10 (Pg 157) of Learning, Earning & Investments
 Day 5 Students will explain, compare and contrast "risk" vs. "return on investments." Which is more important when investing? Step 1: Look at Visual 12 (Risk Pyramid) from Lesson 12 (Pg 159) of Learning, Earning & Investing. Discuss risk pyramid and what it means for investors. Again, compare the pyramid with financial goals. Step 2: Discuss mutual funds. Step 3: Discuss benefits of investing in mutual funds and how investors can become more diverse.

	Day 6 Guest speaker Ameriprise			
	Step 1: Discuss small cap investments vs. large cap stocks.			
	Students should have prepared questions to ask speaker.			
Assignments	Assignment 1: Students should take the time to sit down and figure out what they want out of their financial future. We all want to make a lot of money. Some of us want it in the short-term, others are looking more in the future. Students will use worksheet to set financial goals for themselves. Students will see that saving for the future includes using all 3 steps that we will be discussing.			
	Assignment 2: Figure simple vs. compound interest. Use www.orangekids.com/amy/save_bm_003.htm# to examine differences between simple and compound interest. Students will also calculate a saving worksheet. They will see how saving just a little at a time will add up. (Pg.6 at Merrill Lynch website)			
	Assignment 3: Students will research the forms of saving that are mentioned in the assignment. They need to look at the risk of the investment vs. the rate of return. Students will also compare the types of saving with their financial goals.			
	Assignment 4: Use Pg. 7 of the Merrill Lynch website for a family interview worksheet. Students will use worksheet to interview a family member.			
Math Applications	• "Understanding Risk and Return" Worksheet (attached)			
···· ··· ··· ··· ··· ··· ··· ··· ··· ·	to calculate risk of investments. Students will use initial investment and multiply it by the percent it receives.			
	• Students may also use worksheets from <i>Practical Business</i> <i>Math Procedures</i> text to compare simple interest with compound interest. There will be uses of multiplication with percents and addition to figure the differences.			

Assessment	Lesson/Unit Evaluation Criteria Points			
	Fill out financial goal sheet use Pg 27 from	0-30		
	http://philanthropy.ml.com/ipo/volunteer/pdf/le			
	vel3strategy1.pdf website) NOTE: Each question			
	is worth 5 points for complete answers			
	Research and explain the 5 forms of saving:	0 - 25		
	1. Students list each form $(1 \text{ pt each}) = 5$			
	2. Students define each form (1 pt each) $=5$			
	3. Students cite at least 1 advantage of each			
	(1 pt each) = 5			
	4. Students cite at least 1 disadvantage of each			
	(1 pt each) = 5			
	5. For each form, students should state whether			
	it's a long-term or short-term investment			
	(1 pt each) = 5			
	Compare forms of saving with financial goals	0 - 20		
	(Students should look at the 5 forms of saving to			
	see how each could work for them compared with			
	their goals)			
	Questions from each student for guest speaker	0 - 10		
	(Students should write at least 5 questions for the			
	guest speaker; each worth 2 points)			
	Interview worksheet (Pg. 7 from Merrill Lynch	0 - 25		
	website; each question is worth 5 points)			
	Unit Possible Points	100		
	Grading Scale:			
	$\mathbf{A} = 90\text{-}100$			
	$\mathbf{B} = 80 \cdot 89$			
	C = 70-79			
	D = 60-69			
	F = 0-59			
	Instructor comments:			
Teacher	Diana Davis			
School	Wayne High School			

Understanding Risk and Return Source: www.MoneyInstructor.com

Before investing your money, you will have to understand the important concept of **risk and return**. Risk and return means that the returns you will get when investing your money will vary. You may even lose money! However, no matter what you do with your money, you are always taking some amount of risk. If you keep your money at home, you risk that it could be lost or stolen. If you place your money in a bank account, you risk that the returns that you get will not be high enough.



Risk and return also means that if you take greater risks, you should expect to get greater returns. If you want the possibility of getting greater returns, you need to invest your money in more risky investments, for example bonds or stocks. Different bonds and stocks even have different degrees of risk. So how much risk should you take with your money? That depends on many different factors including your age, risk tolerance, and investment objectives. No matter where you invest your money, you first should understand the investment's risks and potential rewards.

EXERCISE: You have been given the option to invest in either a safe investment, or one that has more risk. The safe investment will give you a return of 6%. The risky investment's return will vary. Finish filling in the following table, and answer the questions that follow:

SAFE INVESTMENT: Here is the return for the safe investment. It always give the same

return.	Money to Invest	Return	Gain(Loss)	Total
	\$1,000.00	6%	\$60.00	\$1,060.00

RISKY INVESTMENT: The risky investment's return will vary, and may be one of the following. Finish filling in the following table. Round each calculation to the nearest penny.

Money to Invest		Return	Gain/Loss	Total	
1.	\$1,000.00	18%	\$180.00	\$	_
2.	\$1,000.00	-19%	(\$190.00)	\$	_
3.	\$1,000.00	23%	\$230.00	\$	_
4.	\$1,000.00	-11%	(\$110.00)	\$	_
5.	\$1,000.00	3%	\$30.00	\$	_
6.	\$1,000.00	-19%	(\$190.00)	\$	_

Should you choose the safe investment or the risky investment? Why?

	NYWERS	A		
Savings in one year	Interest	Interest Rate	Beginning Savings	
\$1,180.00	\$180.00	18%	\$1,000.00	1.
\$810.00	(\$190.00)	-19%	\$1,000.00	2.
\$1,230.00	\$230.00	23%	\$1,000.00	3.
\$890.00	(\$110.00)	-11%	\$1,000.00	4.
\$1,030.00	\$30.00	3%	\$1,000.00	5.
\$810.00	(\$190.00)	-19%	\$1,000.00	6.