Presentation Slides

Lesson Twelve Saving and Investing





pay yourself first (a little can add up)

example 1:

Save this each week	At % Interest	In 10 years you'll have
\$7.00	5%	\$4,743.04
\$14.00	5%	\$9,486.08
\$21.00	5%	\$14,229.11
\$28.00	5%	\$18,972.15
\$35.00	5%	\$23,715.19

example 1:

If you invest \$1,000 each year (\$19.20 per week)

Interest Rate	5 yrs.	10 yrs.	15 yrs.	20 yrs.
5%	\$5,826.42	\$13,238.06	\$22,697.41	\$34,770.20
6%	\$6,001.01	\$14,006.03	\$24,718.54	\$39,054.30
7%	\$6,180.22	\$14,821.37	\$26,941.03	\$43,939.47
8%	\$6,364.14	\$15,686.94	\$29,385.19	\$44,844.83
9%	\$6,552.88	\$16,605.75	\$32,073.33	\$55,872.14
10%	\$6,746.53	\$17,580.97	\$35,029.93	\$56,392.42
11%	\$6,945.21	\$18,615.95	\$38,281.81	\$71,419.94
12%	\$7,149.03	\$19,714.22	\$41,858.37	\$80,893.94

types of savings accounts

passbook account

- Depositor receives a booklet in which deposits, withdrawals, and interest are recorded.
- Average interest rate is lower at banks and savings and loans than at credit unions.
- Funds are easily accessible.

statement account

- Basically the same as a passbook account, except depositor receives monthly statements instead of a passbook.
- Accounts are usually accessible through 24-hour automated teller machines (ATMs).
- Interest rates are the same as passbook account.
- Funds are easily accessible.

interest-earning checking account

- Combines benefits of checking and savings.
- Depositor earns interest on any unused money in his/her account.

money-market deposit accounts

what they are and how they work

- Checking/savings account.
- Interest rate paid built on a complex structure that varies with size of balance and current level of market interest rates.
- Can access your money from an ATM, a teller, or by writing up to three checks a month.

benefits

Immediate access to your money.

trade-offs

- Usually requires a minimum balance of \$5,000.
- Limited number of checks can be written each month.
- Average yield (rate of return) higher than regular savings accounts.

certificates of deposit (CDs)

what they are and how they work

 Bank pays a fixed amount of interest for a fixed amount of money during a fixed amount of time.

benefits

- No risk
- Simple
- No fees
- Offers higher interest rates than savings accounts.

trade-offs

- Restricted access to your money
- Withdrawal penalty if cashed before expiration date (penalty might be higher than the interest earned)

types of certificates of deposit

- **1. Rising-rate CDs** with higher rates at various intervals, such as every six months.
- **2. Stock-indexed CDs** with earnings based on the stock market.
- **3. Callable CDs** with higher rates and long-term maturities, as high as 10–15 years. However, the bank may "call" the account after a stipulated period, such as one or two years, if interest rates drop.
- **4. Global CDs** combine higher interest with a hedge on future changes in the dollar compared to other currencies.
- **5. Promotional CDs** attempt to attract savers with gifts or special rates.



how simple and compound interest are calculated

simple interest calculation

Dollar Amount x Interest rate x Length of Time (in years) = Amount Earned example

■ If you had \$100 in a savings account that paid 6% simple interest, during the first year you would earn \$6 in interest.

 $$100 \times 0.06 \times 1 = 6

- At the end of two years you would have earned \$12.
- The account would continue to grow at a rate of \$6 per year, despite the accumulated interest.

compound interest calculation

■ Interest is paid on original amount of deposit, plus any interest earned.

(Original \$ Amount + Earned Interest) x Interest Rate x Length of Time = Amount Earned

example

If you had \$100 in a savings account that paid 6% interest compounded annually, the first year you would earn \$6.00 in interest.

 $$100 \times 0.06 \times 1 = 6

\$100 + \$6 = \$106

■ With compound interest, the second year you would earn \$6.36 in interest.

The calculation the second year would look like this:

 $$106 \times 0.06 \times 1 = 6.36

\$106 + 6.36 = \$112.36



choosing a savings account

factors that determine the dollar yield on an account:

Interest rate (also called rate of return, or annual yield)

All money earned comes from this factor.

the following factors reduce money earned and can even turn it into a loss:

Fees, charges, and penalties

Usually based on minimum balance requirements, or transaction fees.

Balance requirements

- Some accounts require a certain balance before paying any interest.
- On money-market accounts, most banks will pay different interest rates for different size balances. (Higher balance earns a higher rate.)

Balance calculation method

Most calculate daily. Some use average of all daily balances.



Truth in Savings Act

The Truth in Savings Act (Federal Reserve Regulation DD)

requires financial institutions to disclose the following information on savings account plans they offer:

- Fees on deposit accounts
- The interest rate
- Other terms and conditions
- The annual percent yield (APY), which is the percentage rate expressing the total amount of interest that would be received on a \$100 deposit based on the annual rate and frequency of compounding for a 365-day period. Truth in Savings defines the year as 365 days rather than 360, 366, or some other number. This law eliminates confusion caused by the more than eight million variations of interest calculation methods previously used by financial institutions.



to determine about how many years it will take to double your money:

to determine the interest rate that will double your money in a set number of years:



what they are

A bond is an "IOU," certifying that you loaned money to a government or corporation and outlining the terms of repayment.

how they work

Buyer may purchase bond at a discount. The bond has a fixed interest rate for a fixed period of time. When the time is up, the bond is said to have "matured" and the buyer may redeem the bond for the full face value.

types

Corporate

- Sold by private companies to raise money.
- If company goes bankrupt, bondholders have first claim to the assets, before stockholders.

Municipal

- Issued by any non-federal government.
- Interest paid comes from taxes or from revenues from special projects. Earned interest is exempt from federal income tax.

Federal government

■ The safest investment you can make. Even if U.S. government goes bankrupt, it is obligated to repay bonds.

mutual funds



what they are

Professionally managed portfolios made up of stocks, bonds, and other investments.

how they work

- Individuals buy shares, and fund uses money to purchase stocks, bonds, and other investments.
- Profits returned to shareholders monthly, quarterly, or semi-annually in the form of dividends.

advantages

 Allows small investors to take advantage of professional account management and diversification normally only available to large investors.

types of mutual funds

Balanced Fund includes a variety of stocks and bonds.

Global Bond Fund has corporate bonds of companies from around the world.

Global Stock Fund has stocks from companies in many parts of the world.

Growth Fund emphasizes companies that are expected to increase in value; also has higher risk.

Income Fund features stock and bonds with high dividends and interest.

Industry Fund invests in stocks of companies in a single industry (such as technology, health care, banking).

Municipal Bond Fund features debt instruments of state and local governments.

Regional Stock Fund involves stocks of companies from one geographic region of the world (such as Asia or Latin America).



what they are

■ Stock represents ownership of a corporation. Stockholders own a share of the company and are entitled to a share of the profits as well as a vote in how the company is run.

how earnings are made

- Company profits may be divided among shareholders in the form of dividends. Dividends are usually paid quarterly.
- Larger profits can be made through an increase in the value of the stock on the open market.

advantages

- If the market value goes up, the gain can be considerable.
- Money is easily accessible.

disadvantages

- If market value goes down, the loss can be considerable.
- Selecting and managing stock often requires study and the help of a good brokerage firm.



ways to invest

- Buy a house, live in it, and sell it later at a profit.
- Buy income property (such as an apartment house or a commercial building) and rent it.
- Buy land and hold it until it rises in value.

advantages

■ Excellent protection against inflation.

disadvantages

- Can be difficult to convert into cash.
- A specialized type of investment requiring study and knowledge of business.

capital gains: profits from the sale of a capital asset such as stocks, bonds, or real estate. These profits are tax-deferred; you do not have to pay the tax on these profits until the asset is sold. Long-term capital gains occur on investments held more than 12 months. Short-term capital gains occur on investments held less than 12 months.

retirement plans

what they are and how they work

- Plans that help individuals set aside money to be used after they retire.
- Federal income tax not immediately due on money put into a retirement account, or on the interest it makes.
- Income tax paid when money is withdrawn.
- Penalty charges apply if money is withdrawn before retirement age, except under certain circumstances.
- Income after retirement is usually lower, so tax rate is lower.

types

Individual Retirement Account (IRA)

Allows a person to contribute up to \$6,000 of pre-tax earnings per year. Contributions can be made in installments or in a lump sum. Those over 50 can contribute up to \$7,000 pre-tax annually.

Roth IRA (also called the IRA Plus)

While the up to \$6,000 annual contribution to this plan is not tax-deductible, the earnings on the account are tax-free after five years. The funds from the Roth IRA may be withdrawn after age 59 ½, if the account owner is disabled, for educational expenses, or for the purchase of a first home.

401(k)

Allows a person to contribute to a savings plan from his or her pre-tax earnings, reducing the amount of tax that must be paid. Employer matches contributions up to a certain level.

Keogh Plan

Allows a self-employed person to set aside up to 25% of income (but not more than \$56,000 per year).



IRAs—an example of return on investment

contributions only between ages of 22-30 (9 years)

- \$2,000 contributed each year
- Total investment of \$18,000
- At an interest rate of 9%, by age 65 will have \$579,468

contributions only between ages of 31-65 (35 years)

- \$2,000 made contributed each year
- Total investment of \$70,000
- At an interest rate of 9%, by age 65 will have \$470,249



comparing savings and investment plans

inst	rument	maturity	risk	yield	minimum balance	taxable?
Savings Account		Immediate	None if insured	Low	Varies	Yes
Cert	ificate of Deposit	90 days or more	None if insured	Moderate	Varies	Yes
Bon	ds					
-	Corporate	5–30 years	Some	Moderate	\$1,000	Yes
-	Municipal	1–20 years	Some	Moderate	\$5,000	No federal, some states
-	Stocks	Immediate	Low to high	Low to high	Varies	Yes
U.S.	Treasury					
	Bills	1 year or less	None	Moderate	\$1,000	Federal only
	Notes	1–10 years	None	Moderate	\$1,000	Federal only
	Bonds	10–30 years	None	Moderate	\$1,000	Federal only
Mut	ual Funds	Varies	Low to high	Moderate	Varies	Usually
Reti	rement Funds	When buyer is 60 years old	Low	Moderate	Varies	At maturity



avoiding investment fraud

each year, billions of dollars are lost to fraudulent investments. Some of the most common include:

- Illegal pyramids, insider trading, and unlicensed investment brokers
- High-risk "penny" stocks and fraudulent securities
- Fraudulent franchises and business opportunities
- Internet services, 900-numbers, and high-tech investments promising high profits and minimal risk
- Opportunities to invest in movie deals and other entertainment ventures with promises of guaranteed profits and failure to disclose risk

to protect yourself from becoming a victim of investment fraud, take the following actions:

- Become informed about investments and industries before investing
- Talk with others who have made similar investments
- Obtain information from state and federal regulatory agencies
- Never buy over the phone without first investigating the situation
- Avoid investment opportunities promising large returns in a short amount of time that seem "too good to be true"—they probably are.

For additional information, contact the following websites:

ftc.gov fraud.org sec.gov nasaa.org