Chapter 2

Financial Statements, Cash Flow, and Taxes

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Major changes are occurring in Accounting. Textbooks are often years behind changes. In my videos, I will discuss some of these changes.

Chapter 2 Things to absorb - For Chapter 2, the main focus is on the format and purpose of balance sheet and income statement, and the names of items that might appear in these statements (e.g., depreciation is on income statement and accumulated depreciation may be on balance sheet), names of four required financial statements, the basics of tax calculations, and understand how to identify/calculate cash flow.

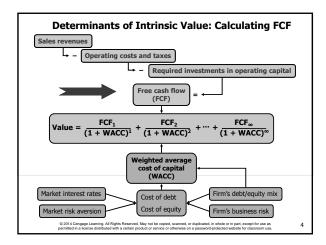
Things to Read - You will need to read the chapter. You will need to search for terms using a search engine.

Things to Do - Make 100 on the quiz. Be able to answer End of Chapter Questions 1-4, 6, and 7 and Problems 1, 2, 4, 6, and 9-11. Note, I will ask you to know the names of many financial accounts that are not listed in the chapter, expect some Internet searches. Many account names vary by company (e.g., Income Statement = Profit and Loss Statement = Statement of Income = Statement of Operations), thus learning this chapter requires learning potential account names. • 2010 Chapter Learning of the Statement of operations on passed potential account names.

Topics in Chapter

- Income statement
- Balance sheet
- Statement of cash flows
- Statement of Owner's Equity
- Free cash flow
- Performance measures
- Corporate taxes and Personal taxes

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Accounting and Finance

The Balance Sheet

The Balance Sheet is a financial statement that shows the firm's assets and liabilities at a particular time. Total Assets = Total Liabilities + Shareholders' Equity Why is it useful?

Shareholders' Equity = Total Assets – Total Liabilities

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The Income Statement

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Income Statement: a financial statement that shows the revenues, expenses, and net income of a firm over a period of time.

Why is this useful?

The Statement of Cash Flows

The Statement of Cash Flows shows the firm's cash receipts and cash payments over time.

Why is it useful? Free Cash Flow is cash available for distribution to investors after the firm pays for new investments or additions to working capital.

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Book Values vs. Market Values

■ GAAP (Generally Accepted Accounting Principles)

Book Value

• Value of assets or liabilities according to the balance sheet.

- Values recorded at their *historical cost* adjusted for depreciation
- Market Value
 - The value of assets or liabilities were they to be resold in a market

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Big Changes are Coming/Here

- United States (and a few others) are FASB/GAAP
- Most of the rest of the world are IASB/IFRS
- A gradual switch to IFRS
 - Sarbanes Oxley and Disclosures
 - Different Forms

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Accounting Practice

Grey areas for financial managers: **Revenue recognition**

Cookie-jar reserves

Off-balance sheet assets and liabilities

Mark-to-market accounting

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The Five Basic Ways to Manipulate Financial Statements

- 1. "Aggressive" versus "Conservative" Accounting, Aggressive accounting accelerates recognition of income and delays recognition of expenses. It also increases the firm's tax rate.
 - Cisco recognizes sales when equipment leaves factory. They
 were famous for placing unassembled parts on trucks at end of
 quarter and then assembling items on truck.
- 2. End of Quarter Control of Discretionary Expenses at Quarter-End/Acceleration of Sales using discounts at quarter End (e.g. travel bans or bans on purchasing supplies)
 - Sunbeam selling Gas Grills in January at large discounts, while giving free storage in Sunbeam Warehouses, with 150 day free financing.

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The Five Basic Ways to Manipulate Financial Statements

- 3. Moving items between Current assets, Current liabilities, and Long-Term Liabilities at quarter end
 - Some companies take out long-term loans (increase in Long Term Liabilities) just prior to quarter end to increase Cash (Current Asset) and pay them off as soon as quarter is over. This improves the cash position and liquidity ratios.
- 4. Placing focus on Proforma Statements (EBITDA) or frequent use of one-time charges
 - Kodak used 1-time charges associated with hiring and firing employees for the 15 years (until Bankruptcy)
 - Recognition of Deferred Taxes to create cashless Operating Cash Flow

The Five Basic Ways to Manipulate Financial Statements

- 5. Manipulation using choice of Industry since Difference Industries have different GAAP
 - Ford and GM classify most income and expenses as if they were a Financing Company rather than a manufacturer.

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The Income Statement

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Income Statement: a financial statement that shows the revenues, expenses, and net income of a firm over a period of time.

Why is this useful?

Income S	tatement	
	2012	2013
Sales	\$3,432,000	\$5,834,400
COGS	2,864,000	4,980,000
Other expenses	340,000	720,000
Deprec.	<u>18,900</u>	<u>116,960</u>
Tot. op. costs	3,222,900	<u>5,816,960</u>
EBIT	209,100	17,440
Int. expense	62,500	176,000
Pre-tax earnings	146,600	(158,560)
Taxes (40%)	58,640	<u>(63,424)</u>
Net income	<u>\$ 87,960</u>	(\$ 95,136)
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What happened to sales and net income?

- Sales increased by over \$2.4 million.
- Costs shot up by more than sales.

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- Net income was negative.
- However, the firm received a tax refund since it paid taxes of more than \$63,424 during the past two years.

Income Statement: Example

In the income statement below, what was the value of Home Depot's EBIT in 2009?

COME STATEMENT OF HOME DEPOT. 2009

INCOME STATEMENT OF HOM			Common
	\$ million	% of sales	
Net sales	66,176	100.0	Size
Cost of goods sold	43,764	66.1	/ Income
Selling, general & admininstrative expenses	15,907	24.0	Statement
Depreciation	1,806	2.7	(right column)
Earnings before interest and income taxes	4,699	7.1	۴
Interest expense	676	1.0	
Taxable income	4,023	6.1	
Taxes	1,362	2.1	
Net income	2,661	4.0	
Allocation of net income			
Dividends	1,525	2.3	
Addition to retained earnings	1,136	1.7	for use as



	Variations are many
	Revenue
	-Cost of Goods Sold
	=Gross Profit
	-Operating Expenses (e.g. Labor, SGA, Rent, etc.)
	=EBITDA
	-Depreciation and Amortization
	=EBIT (a.k.a Operating Profit/Earning/Income)
	-Net Interest Expense (or Income)
	=EBT (aka Profit/Income/Earnings before Taxes)
	-Taxes
	=Net Income
	- Dividends (could be multiple lines)
3	-26-Additions to Retained Earnings



RECAP CORPORATION Statement of Comprehensive Income For the Year Ending December 31, 20X7		
Sales		\$6,500,000
Cost of goods sold		4,000,000
Gross profit		\$2,500,000
Operating expenses		
Salaries	\$750,000	
Rent	250,000	
Other operating expenses	300,000	1,300,000
Income from continuing operations before income taxes		\$1,200,000
Income taxes		500,000
Income from continuing operations		\$ 700,000
Discontinued operations		
Profit on operations of food processing unit, including gain on disposal	\$800,000	
Less: Income tax on disposal of business unit	200,000	
Gain on discontinued operations		600,000
Extraordinary item		
Gain on sale of diamonds found in landfill	\$900,000	
Less: Income tax on diamonds	250,000	
Extraordinary gain		650,000
Net income/earnings		\$1,950,000
Other comprehensive income adjustments from certain investments		100,000
Comprehensive income		\$2,050,000



Amounts in SEK thousand	Note	2014	2013
Operating income			
Net sales	5	168,403	145,488
Work performed for own use and capitalized	7	13,462	16,404
Other operating income	10	3,829	269
Total		185,694	162,161
Operating expenses			
Raw materials and consumables		-90,962	-83,791
Other external costs	8	-22,317	-18,240
Personnel costs	9	-40,559	-38,723
Depreciation, amortization and impairment of tangible and intangible non-current assets		-35 703	-30,585
Other operating expenses	10	-1,536	-13
Total operating expenses		-191,077	-171,352
Operating income/loss		-5,383	-9,191
Financial income	11	17,562	2,491
Financial expenses	11	-18,339	-20,219
Net financial items		-777	-17,728
Results before tax		-6,160	-26,919
Taxes	12	16,583	-2,820
Net income/loss for the year		10,423	-29,739
Other comprehensive income			
Currency exchange differences	13	-1,356	-132
Other comprehensive income/loss for the year, net after tax		-1,356	-132
Total comprehensive income/loss for the year		9.067	-29.871



Profits vs. Cash Flow

Differences between profits & cash flow:

- Depreciation
- Cash vs. accrual accounting

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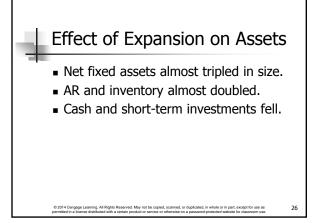
The Balance Sheet

The Balance Sheet is a financial statement that shows the firm's assets and liabilities at a particular time. Total Assets = Total Liabilities + Shareholders' Equity

Why is it useful? Shareholders' Equity = Total Assets – Total Liabilities 3:24 compare Laming At Rights Reserved. May not be opend scienced, or diplatant, in white or in part, exception are as

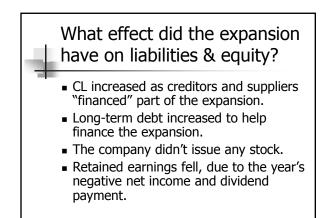
Balance Sheet: Assets						
	<u>201</u>	.2	2013			
Cash	\$ 9,00	0 \$	7,282			
S-T invest.	48,60	0	20,000			
AR	351,20	0 6	32,160			
Inventories	<u>715,20</u>	<u>1,2</u>	87,360			
Total CA	1,124,00	0 1,9	46,802			
Gross FA	491,00	0 1,2	02,950			
Less: Depr.	146,20	<u>10</u> <u>2</u>	63,160			
Net FA	344,80	0 9	39,790			
Total assets	<u>\$1,468,80</u>	<u>10 \$2,8</u>	<u>86,592</u>			
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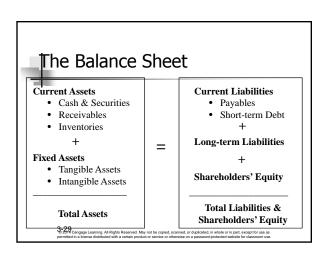




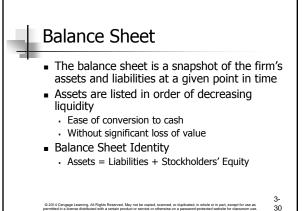
Balance Sheet: Liabilities & Equity					
		<u>2012</u>	<u>2013</u>		
Accts. payable	\$	145,600	\$ 324,000		
Notes payable		200,000	720,000		
Accruals		<u>136,000</u>	<u>284,960</u>		
Total CL		481,600	1,328,960		
Long-term debt		323,432	1,000,000		
Common stock		460,000	460,000		
Ret. earnings		<u>203,768</u>	<u>97,632</u>		
Total equity		663,768	557,632		
Total L&E	<u>\$1</u>	,468,800	<u>\$2,886,592</u>		
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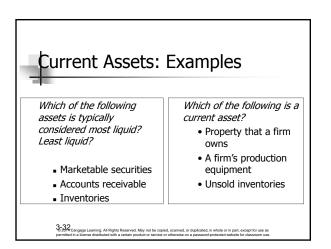


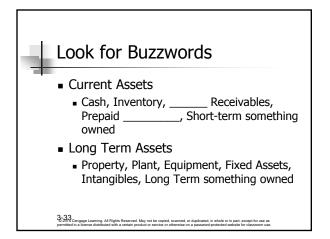
Assets

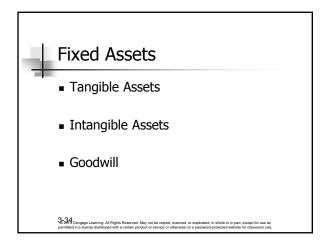
Assets represent the uses of a firm's funds i.e. Assets show what the firm "owns"

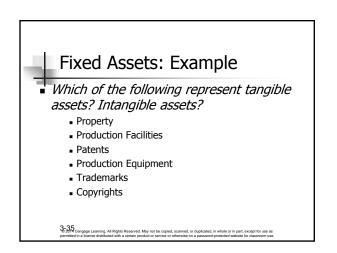
- Liquid Assets can be converted easily into cash
- Current vs. Fixed Assets

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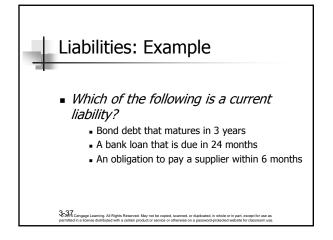
Liabilities

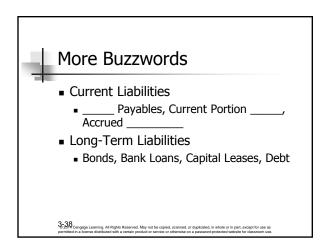
Liabilities represent the sources of a firm's funding.

(i.e. Liabilities represent what a firm "owes.")

• Current vs. Long-Term Liabilities

Current Assets – Current Liabilities = Net Working Capital 3:38 Congress Lawing. At Rights Reserved. Ney not be copied, scanned, or depletated, in whole or in part, except for use as permitted in a locane distributed with a certain product or served or otherwise on a particular for distributed for distributed with a certain product or served or otherwise on a particular for distributed for distributed with a certain product or served or otherwise on a particular for distributed for distributed with a certain product or served or otherwise on a particular for distributed with a certain product or served or otherwise on a particular for distributed with for distributed with a certain product or served or otherwise on a particular for distributed with for distributed with a certain product or served or otherwise on a particular for distributed with for distributed with a certain product or served or otherwise on a particular for distributed with for distributed with a certain product or served or otherwise on a particular for distributed with for distributed with a certain product or served or otherwise on a particular for distributed with for distributed with a certain product or served or otherwise on a particular for distributed with for distributed with a certain product or served or otherwise on a particular for distributed with for distributed with for distributed with a certain product or served with a certain product or ser







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			,	aiue	01
work	ina c	capita	al in 2008? 2009?		
	2	ANCE SHE	EET OF HOME DEPOT		
Assets	2009	(Figure 2008	s in \$ milions) Liabilities and Shareholders' Equity	2009	200
Current assets			Current liabilities		
Cash and marketable securities	1.421	519	Debt due for repayment	1.020	1.76
Receivables	964	972	Accounts payable	8,185	8,22
Inventories	10,188	10,673	Other current liabilities	1,158	1,16
Other current assets	1,327	1,198	Total current liabilities	10,363	11,15
Total current assets	13,900	13,362			
Fixed Assets			Long-term debt	8.662	9.66
Tangible fixed assets			Deferred income taxes	319	36
Property, plant, and equipment	37,345	36,223	Other long-term liabilities	2,140	2,19
Less accumulated depreciation	11,795	9,989			
Net tangible fixed assets	25,550	26,234	Total liabilities	21,484	23,38
Intangible asset (goodwill)	1,171	1,134	Shareholders' equity:		
Long-term investments	33	36	Common stock and other paid-in capital	6,390	6,13
Other assets	223	398	Retained earnings	13,588	12,45
			Treasury stock	\$ (585)	(80
Total Assets	40,877	41,164	Total shareholders' equity	19,393	17,77



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Book Values vs. Market Values

- GAAP (Generally Accepted Accounting Principles)
- Book Value
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- Market Value
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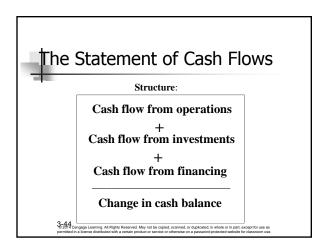
The Statement of Cash Flows

The Statement of Cash Flows shows the firm's cash receipts and cash payments over time.

Why is it useful?

Free Cash Flow is cash available for distribution to investors after the firm pays for new investments or additions to working capital.

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CASH FLOW STATEMENT

Cash Flows are segregated based on source:
classification guidelines can be arbitrary.

- **Operating activities:** involve the cash effects of transactions that enter into the determination of net income.
- Investing activities: concern with buying (and selling) property, plants, and equipment (PPE); acquiring and disposing of securities of other entities;
- **Financing activities:** include issuance and reacquisition of a firm's debt and capital stock, and dividend payments.

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Statement of Cash Flows

Cash Flow from Operating Activities (CFO)

 Accounts receivable, Inventories, Prepaid expenses, Accounts payable, Rent payable, Interest payable, Income tax payable, Deferred income taxes

- Cash Flow from Investing Activities (CFI)
 Property, plant, and equipment costs and sales, Investment in affiliates, Cash paid/received for acquisitions and investments
- Cash Flow from Financing Activities (CFF)
 Notes payable, Short-term debt, Long-term debt, Bonds, Common stock, Retained earnings, Dividends paid
- Relationship between balance sheet changes and cash flows is:
 - Increases (decreases) in assets are net cash outflows (inflows).
 Increases (decreases) in liabilities are net cash inflows
 - Inicideases (decideases) initiabilities are net cash initiaws
 (outflows).
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Statement of Cash Flows:				
Operating Activities				
Net Income	(\$ 95,136)			
Adjustments:				
Depreciation	116,960			
Change in AR	(280,960)			
Change in inventories	(572,160)			
Change in AP	178,400			
Change in accruals	<u>148,960</u>			
Net cash provided (used) by ops.	(\$503,936)			
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Statement of Cash Flo 2013	WS:
Investing Activities Cash used to acquire FA Change in S-T invest. Net cash prov. (used) by inv. act.	(\$711,950) <u>28,600</u> (\$683,350)
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Statement of Cash Flow 2013	vs:
Financing Activities	
Change in notes payable	\$ 520,000
Change in long-term debt	676,568
Payment of cash dividends	<u>(11,000)</u>
Net cash provided (used) by fin. act.	\$1,185,568
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Summary of Statement of CF

(\$ 503,936)

(683,350)

1,185,568

(1,718) <u>9,000</u>

7,282

50

\$

Net cash provided (used) by ops.

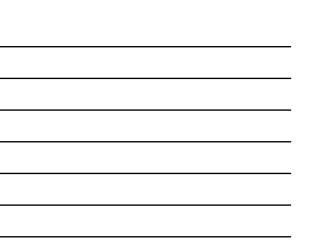
Net cash prov. (used) by fin. act.

Net cash to acquire FA

Cash at beginning of year

Net change in cash

Cash at end of year



What can you conclude from the statement of cash flows?

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- Net CF from operations = -\$503,936, because of negative net income and increases in working capital.
- The firm spent \$711,950 on FA.
- The firm borrowed heavily and sold some short-term investments to meet its cash requirements.
- Even after borrowing, the cash account fell by \$1,718.

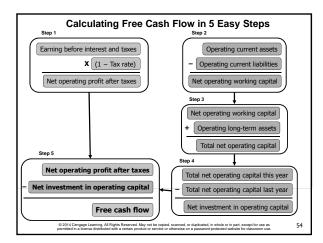
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What is free cash flow (FCF)? Why is it important?

- FCF is the amount of cash available from operations for distribution to all investors (including stockholders and debtholders) after making the necessary investments to support operations.
- A company's value depends on the amount of FCF it can generate.

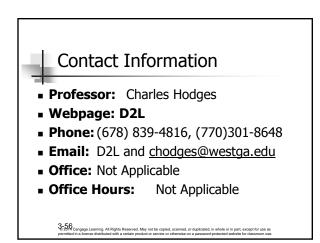
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Net Operating Profit after Taxes (NOPAT) NOPAT = EBIT(1 - Tax rate) $NOPAT_{13} = \$17,440(1 - 0.4)$ = \$10,464. $NOPAT_{12} = \$125,460.$

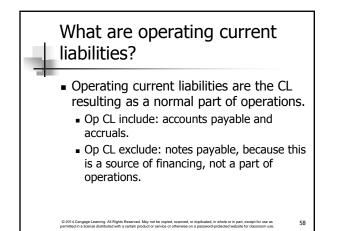


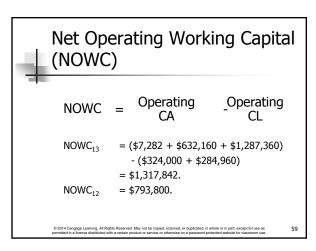
What are operating current assets?

- Operating current assets are the CA needed to support operations.
 - Op CA include: cash, inventory, receivables.

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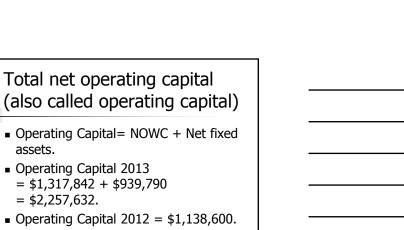
• Op CA exclude: short-term investments, because these are not a part of operations.



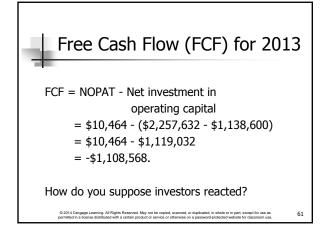


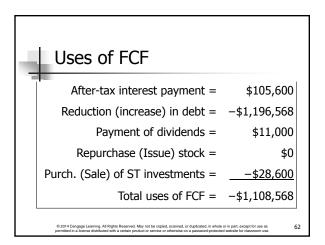
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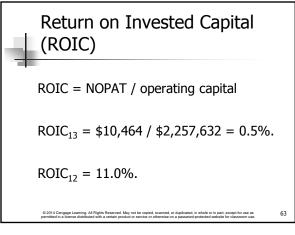
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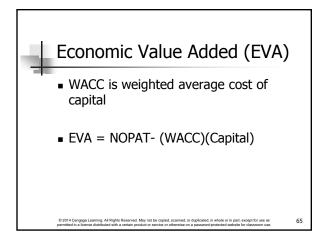


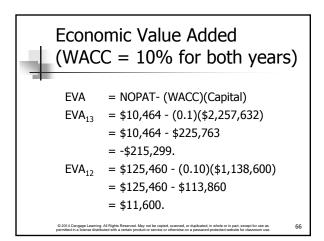


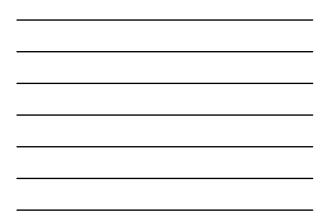


 Note: High growth usually causes negative FCF (due to investment in capital), but that's ok if ROIC > WACC. For example, in 2008 Qualcomm had high growth, negative FCF, but a high ROIC.

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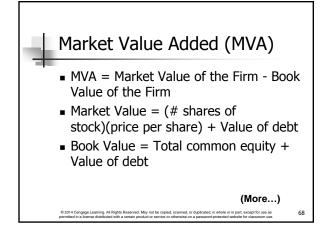


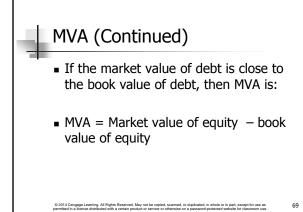


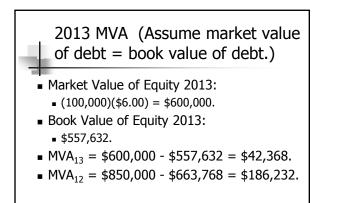


Stock Price and Other Data					
	<u>2012</u>	<u>2013</u>			
Stock price	\$8.50	\$6.00			
# of shares	100,000	100,000			
EPS	\$0.88	-\$0.95			
DPS	\$0.22	\$0.11			
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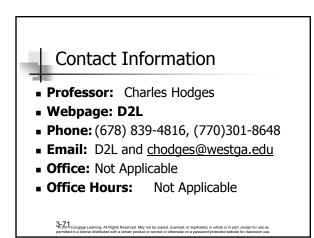


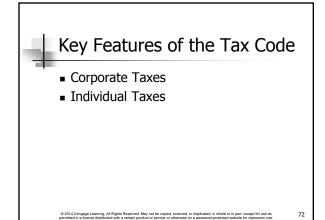




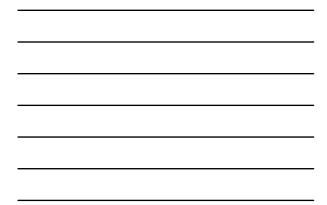


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2005-2012 Corporate Tax Rates		
Taxable Income	Tax on Base	Rate on amount above base
0 -50,000	0	15%
50,000 - 75,000	7,500	25%
75,000 - 100,000	13,750	34%
100,000 - 335,000	22,250	39%
335,000 - 10M	113,900	34%
10M - 15M	3,400,000	35%
15M - 18.3M	5,150,000	38%
18.3M and up	6,416,667	35%
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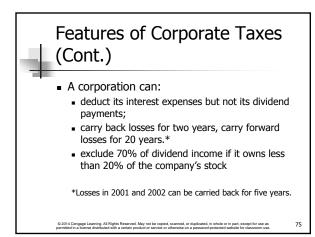


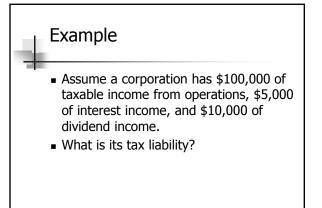
Features of Corporate Taxation

- Progressive rate up until \$18.3 million taxable income.
 - Below \$18.3 million, the marginal rate is not equal to the average rate.
 - Above \$18.3 million, the marginal rate and the average rate are 35%.

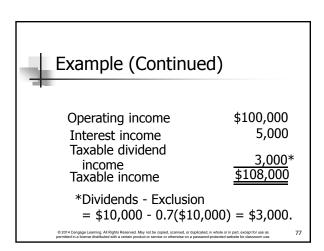
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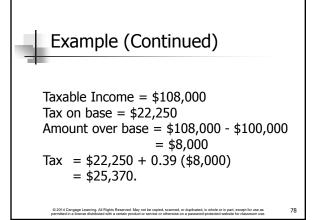
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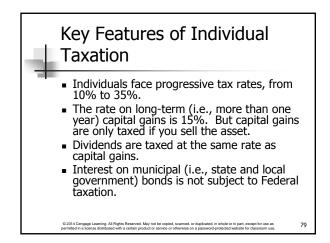


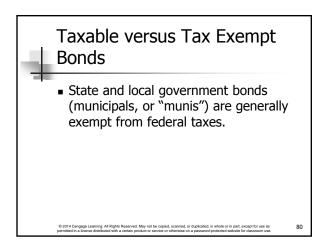
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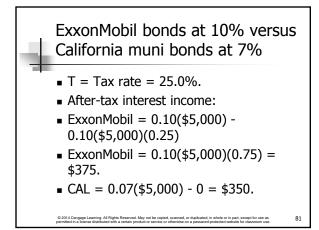


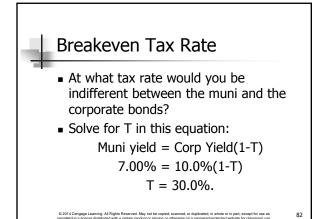


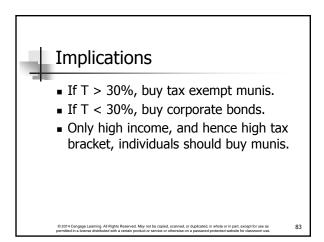












Contact Information

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- Office: Not Applicable
- Office Hours: Not Applicable