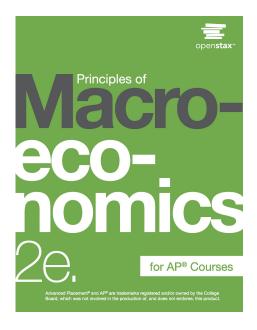
PRINCIPLES OF MACROECONOMICS 2e for AP Courses

Chapter 13 Money and Banking

PowerPoint Image Slideshow





CH.13 OUTLINE



Cowrie Shell or Money?





- Is this an image of a cowrie shell or money?
- The answer is: Both.
- For centuries, people used the extremely durable cowrie shell as a medium of exchange in various parts of the world.
 (Credit: modification of work by "prilfish"/Flickr Creative Commons)



13.1 Defining Money by Its Functions



Functions for Money



Commodity versus Fiat Money



Commodity versus Fiat Money, Continued



A Silver Certificate and a Modern U.S. Bill





- Until 1958, silver certificates were commodity-backed money backed by silver, as indicated by the words "Silver Certificate" printed on the bill, pictured at bottom.
- Today, The Federal Reserve backs U.S. bills, but as fiat money (inconvertible paper money made legal tender by a government decree). (Credit: "The.Comedian"/Flickr Creative Commons)

13.2 Measuring Money: Currency, M1, and M2



M1 Money



M2 Money



The Relationship between M1 and M2 Money





- M1 and M2 money have several definitions, ranging from narrow to broad.
- M1 = coins and currency in circulation + checkable (demand) deposits + savings deposits.
- M2 = M1 + money market funds + certificates of deposit + other time deposits.

Where Does "Plastic Money" Fit In?



13.3 The Role of Banks

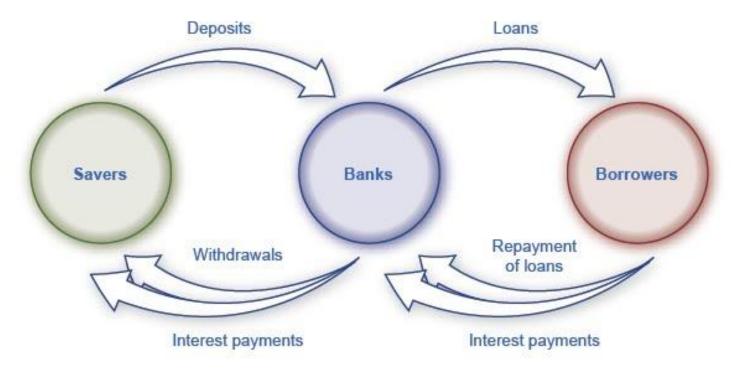


Banks as Financial Intermediaries



Banks as Financial Intermediaries, Illustrated





- Banks act as financial intermediaries because they stand between savers and borrowers.
- Savers place deposits with banks, and then receive interest payments and withdraw money.
- Borrowers receive loans from banks and repay the loans with interest.
- In turn, banks return money to savers in the form of withdrawals, which also include interest payments from banks to savers.

A Bank's Balance Sheet



A Bank's Balance Sheet



Assets		Liabilities	+ Net Worth
Loans	\$5 million	Deposits	\$10 million
U.S. Government Securities (USGS)	\$4 million	81	
Reserves	\$2 million	Net Worth	\$1 million

- This figure shows a hypothetical and simplified balance sheet for the Safe and Secure Bank.
- T-account a balance sheet with a two-column format, with the T-shape formed by the vertical line down the middle and the horizontal line under the column headings for "Assets" and "Liabilities".
- The "T" in a T-account has:
 - the <u>assets</u> of a firm, on the left
 - its <u>liabilities</u>, on the right.

Reserves and Bankruptcy



How Banks Go Bankrupt



13.4 How Banks Create Money, Part 1



Singelton Bank Balance Sheet			
	Assets	Liabilities	+ Net Worth
Reserves	\$10 millio	Deposits	\$10 million

Singelton Bank Balance Sheet				
Assets	J	Liabilities -	+ Net Worth	
Reserves	\$1 million	Deposits	\$10 million	
Loan to Hank's Auto Supply	\$9 million	1.70		

How Banks Create Money, Part 2



Assets First National Balance Sheet Liabilities + Net Worth					
Reserves		+ \$9 million	Deposits		+ \$9 million

- Singelton Bank issues Hank's Auto Supply a cashier's check for the \$9 million.
- Hank deposits the loan in his regular checking account with First National Bank.
- The deposits at First National Bank rise by \$9 million and its reserves also rise by \$9 million.
- Bank lending has <u>expanded the money supply</u> by \$9 million.

First National Balance Sheet				
	Assets		Liabilities + Net Worth	
Reserves	\$90,000	Deposits		+ \$9 million
Loans	\$8.1 million	100		

 Now, First National Bank must hold some required reserves (\$900,000) but can lend out the other amount (\$8.1 million) in a loan to Jack's Chevy Dealership.

How Banks Create Money, Part 3

Assets

Reserves



Liabilities + Net Worth		
+ \$8.1 million	Deposits	+ \$8.1 million

• If Jack's Chevy Dealership deposits the loan in its checking account at Second National, the money supply just increased by an additional \$8.1 million.

Second National Ralance Sheet

- Making loans that are then deposited into a demand deposit account increases the M1 money supply.
- This money creation is possible because there are multiple banks in the financial system.
 - They are required to hold only a fraction of their deposits,
 - loans end up deposited in other banks,
 - which increases deposits and the money supply.

The Money Multiplier and a Multi-Bank System



Cautions about the Money Multiplier



Cautions about the Money Multiplier, Continued





This OpenStax ancillary resource is © Rice University under a CC-BY 4.0 International license; it may be reproduced or modified but must be attributed to OpenStax, Rice University and any changes must be noted.