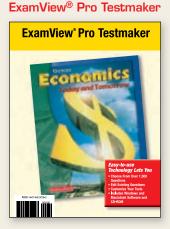


CHAPTER **1 3 Resource** Manager

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PERFORMA	NCE	ASSE	SSME	NT	ACT	IVIT	Y 18
E CONOMIC II	NDICA	TORS			ſ	RUBI	RICS
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	-	-	-		-		
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							1
Percent change							
Percent change Coincident indicators							
Percent change Coincident indicators Income*							
Percent change Coincident indicators Income* Percent change							





You and your students can visit ett.glencoe.com the Web site companion to Economics Today and Tomorrow. This innovative integration of electronic and print media offers your students a wealth of opportunities. The student text directs students to the Web site for the following options:

- Student Web Activities
- Textbook Updates

Answers are provided for you in the Web Activity Lesson Plan. Additional Web resources and Interactive Puzzles are also available.

Use the Glencoe Web site for additional resources. All essential content is covered in the Student Edition.

Additional Resources

Reading for the Student

The Economist Guide to Economic Indicators: Making Sense of Economics. New York: John Wiley & Sons, 1998. Written by staff members of *The Economist* magazine.

Multimedia Material

Capitalist Dilemmas: Ups and Downs. Active Learning Consultants. Simulation. Introduces students to business

CHAPTER **1 3** Resource Manager

Reading Objectives	Reproducible Resources	Technology/Multimedia Resources
 Section 1 National Income Accounting What four categories of economic activity are used to measure GDP? How do the three measurements of income—national, personal, and disposable—differ? 	 Reproducible Lesson Plan 13-1 Daily Lecture Notes 13-1 Guided Reading Activity 13-1 Reading Essentials and Study Guide 13-1 Daily Focus Activity 52 Section Quiz 13-1* Reinforcing Economic Skills 26 	 Daily Focus Transparency 52 Economic Concepts Transparency 13 Vocabulary PuzzleMaker Interactive Tutor Self-Assessment Software MindJogger Videoquiz NBR's <i>Economics & You*</i> ExamView[®] Pro Testmaker
 Section 2 Correcting Statistics for Inflation What is the relationship between the purchasing power of money and the rate of inflation? How do the consumer price index and the producer price index differ in what they measure? 	 Reproducible Lesson Plan 13-2 Daily Lecture Notes 13-2 Guided Reading Activity 13-2 Reading Essentials and Study Guide 13-2 Daily Focus Activity 54 Section Quiz 13-2* 	 Daily Focus Transparency 54 Vocabulary PuzzleMaker Interactive Tutor Self-Assessment Software MindJogger Videoquiz Presentation Plus! ExamView[®] Pro Testmaker
 Section 3 Aggregate Demand and Supply Why is there an inverse relationship between aggregate quantity demanded and the price level? What causes the aggregate supply curve to slope upward? How do you use aggregate demand and supply analysis to determine the equilibrium price level? 	 Reproducible Lesson Plan 13-3 Daily Lecture Notes 13-3 Guided Reading Activity 13-3 Reading Essentials and Study Guide 13-3 Daily Focus Activity 55 Section Quiz 13-3* 	 Daily Focus Transparency 55 Economic Concepts Transparencies 14, 15 Vocabulary PuzzleMaker Interactive Tutor Self-Assessment Software MindJogger Videoquiz Interactive Economics! Presentation Plus! ExamView[®] Pro Testmaker
 Section 4 Business Fluctuations What are the phases of a typical business cycle? What have been the three most severe downturns in the United States economy since the 1920s? 	Reproducible Lesson Plan 13-4 Daily Lecture Notes 13-4 Guided Reading Activity 13-4 Reading Essentials and Study Guide 13-4 Daily Focus Activity 56 Section Quiz 13-4*	 Daily Focus Transparency 56 Vocabulary PuzzleMaker Interactive Tutor Self-Assessment Software MindJogger Videoquiz Presentation Plus! ExamView[®] Pro Testmaker
 Section 5 Causes and Indicators of Business Fluctuations What are some of the potential causes of business fluctuations? What are the three broad categories of economic indicators? 	Reproducible Lesson Plan 13-5 Daily Lecture Notes 13-5 Guided Reading Activity 13-5 Reading Essentials and Study Guide 13-5 Daily Focus Activity 57 Section Quiz 13-5*	 Daily Focus Transparency 57 Vocabulary PuzzleMaker Interactive Tutor Self-Assessment Software MindJogger Videoquiz Presentation Plus! ExamView[®] Pro Testmaker

CHAPTER **13** Resource Manager

ACTIVITY From the Classroom of



Foothill High School Sacramento. California

GDP Assessment

Post large letters C, G, I, and X in four corners of your classroom. As students enter the room, give each person one of the following statements on cards and instruct students to stand by the appropriate sign. If their statement is not counted in GDP, have students sit in their seat. After each group has formed, have them check among themselves to ensure accuracy, and then have each person read his or her card aloud.

C (Consumer)

- Teens buy Michael Jordan clothes in record numbers • New car sales up
 - network

National Council on Economic Education

THE **EconomicsAmerica** AND **EconomicsInternational** PROGRAMS Voluntary Standards Emphasized in Chapter 13 **Resources Available from NCEE**

Content Standard 18 Students will understand that the nation's overall levels of income, employment, and prices are determined by the interaction of spending and production decisions made by all households, firms, government agencies, and others in the economy.

Content Standard 19 Students will understand that inflation can reduce the rate of growth of national living standards, because individuals and organizations use resources to protect themselves against the uncertainty of future prices.

342C

- Stores unable to keep up with demand for new calorie-free chocolate ice cream • Colleges require every
- student to have a calculator New Barbie doll sells quickly · Haircuts and perms at local beauty salon go on sale • Tax accountants in greater
- Bus rides increase Fitness fads increase gvm
- Diamond sales go up • Teens rent limousines for

I (Investment)

demand

membership

Senior Ball

plant

built

production

- Intel builds new plant • GM installs robots for assembly line
- HP expands its Roseville
- Wal-Mart opens new stores Processing plant for tomatoes
- Lumber mills renew
- Microsoft/GE launch new

G (Government)

- Department of Defense orders three new submarines
- Job training program funded by federal government • New science labs built by
- Department of Human Services
- New Federal Courthouse under construction
- Third new prison built this year

X (Foreign)

- Tractors sold to Poland
- Almonds bought by Germans for marzipan
- Jeeps to Japan
- Airplanes to Saudi Arabia
- Rice to India
- · CDs to China

Not Included in GDP

- Jim buys a '64 Mustang
- Jill paints her own house
- "Young genius repairs his own computer"
- · Electrician takes money "under the table"
- Van Gogh painting sells for record \$15 million
- Welfare payments increase

Easy Planning and Preparation!



Use Glencoe's Plus / Presentation Plus!. a

Microsoft PowerPoint® application, to teach Measuring the Economy's Performance. With this multimedia teacher tool, you can customize ready-made presentations. At your fingertips are interactive transparencies, on-screen lecture notes, audiovisual presentations, and links to the Internet and to other Glencoe multimedia.



Interactive Lesson Planner Planning has never

been easier! Organize your week, month, semester, or year with all the lesson helps you need to make teaching creative, timely, and relevant-the way it is meant to be. The Interactive Lesson Planner opens Glencoe's Chapter 13 resources, helps you build your schedule, and tracks your progress.

- *Capstone: The Nation's High School Economics Course*
- Focus: High School Economics
- Civics and Government: Focus on Economics

To order these materials, or to contact your State Council on Economic Education about workshops and programs, call 1-800-338-1192 or visit the NCEE Web site at http://www.nationalcouncil.org









ASK: What is the definition of personal income? the total income received by individuals before they pay taxes

Also available in VHS.

Chapter Overview

Chapter 13 describes or explains key statistics used to measure economic performance; consumer and producer price indexes; aggregate supply and demand; business cycles; and the major causes and indicators of these business fluctuations.

GLENCOE TECHNOLOGY

Use MindJogger Videoguiz VHS to preview Chapter 13 content.



Introduce students to chapter content and key terms by having them access Chapter 13-Chapter Overviews at ett.glencoe.com

CHAPTER

Measuring the Economy's Performance

Why It's Important

Inflation, GDP, the consumer price index—what do the headlines mean? This chapter will explain what these terms indicate about the state of the economy.





Chapter Overview Visit the Economics Today and Tomorrow Web site at ett.glencoe.com and click on Chapter 13—Chapter Overviews to preview chapter information.



CHAPTER LAUNCH ACTIVITY

Remind students that in Chapter 7 they studied supply and demand among individual consumers. Then have students imagine they are economic forecasters who must determine the total supply and demand in the economy for a particular month. Ask them to suggest ways they might gather such information and how they might present this information in visual form. Conclude by pointing out that in this chapter students will learn about aggregate supply and demand-supply and demand for the whole economy.

SECTION **National Income** Accounting

COVER STORY

THE COLUMBUS DISPATCH, JUNE 8, 1999

Oregon and New Hampshire enjoyed the fastest economic growth among the states in 1997, and California's economy remained the biggest, the government said. . . .



broke down the nation's gross domestic product, the total output of goods and services, to show the amount contributed by each state.

People can measure how successful they are economically by the amount of their incomes and by their standard of living, including how much their spendable income will buy. In this section, you'll learn that the success of the overall economy is measured in a similar way.

National Income Accounting

To determine how healthy the American economy is, economists constantly measure such factors as the amount of goods and services produced yearly by the nation and the amount of income people have to spend. The measurement of the national economy's performance is called **national income accounting**. This area of economics deals with the overall economy's output, or production, and its income.

Repr	oducible Masters	
vi -	Reproducible Lesson Plan 13–1	
$\overline{\mathbf{V}}$	Reading Essentials and Study Guid	de 13–1
	Guided Reading Activity 13–1	
$\overline{}$	Section Quiz 13–1	
$\overline{\mathbf{v}}$	Daily Focus Activity 52	
	Daily Lecture Notes 13-1	



A Commerce Department report

Reader's Guide

Terms to Know

- national income accounting
- gross domestic product (GDP)
- net exports
- depreciation
- net domestic product (NDP)
- national income (NI)
- personal income (PI)
- transfer payments
- disposable personal income (DI)

Reading Objectives

- 1. What four categories of economic activity are used to measure GDP?
- 2. How do the three measurements of income-national, personal, and disposablediffer?

national income accounting: measurement of the national economy's performance, dealing with the overall economy's output and income

Measuring the Economy's Performance 343

ESOURCE MANAGER

Multimedia

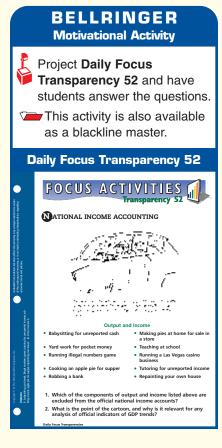
- Daily Focus Transparency 52
- Economic Concepts Transparency 13
- Vocabulary PuzzleMaker
- Interactive Tutor Self-Assessment Software
- ExamView[®] Pro Testmaker
- MindJogger Videoguiz
- 🗊 🍥 NBR's Economics & You
- Presentation Plus!

CHAPTER 13

SECTION 1, Pages 343-348

1 Focus **Overview**

Section 1 describes national income accounting and explains how gross and net domestic product, national income, personal income, and personal disposable income are calculated, and how these measures are used to evaluate the economy.



Reader's Guide

Answers to the **Reading Objectives** questions are on page 348.

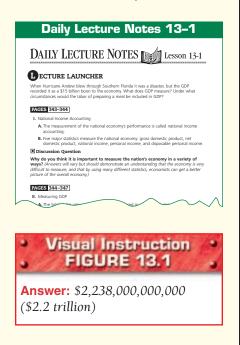
Preteaching Vocabulary

Have students study the Glossary definitions of the Terms to Know. Then have students close their books. State each term in turn, calling on volunteers to define each one.

Vocabulary PuzzleMaker

2 Teach **Guided Practice**

L2 Classifying Ideas On the board, draw a two-column chart using "Strengths" and "Weaknesses' as column headings. Call on volunteers to identify what they think are the strengths and weaknesses of GDP as a measure of economic performance. Note their responses in the appropriate column. Then have students use the information in the chart to write a paragraph explaining why GDP, despite its weaknesses, is a useful measure of the health of the economy.



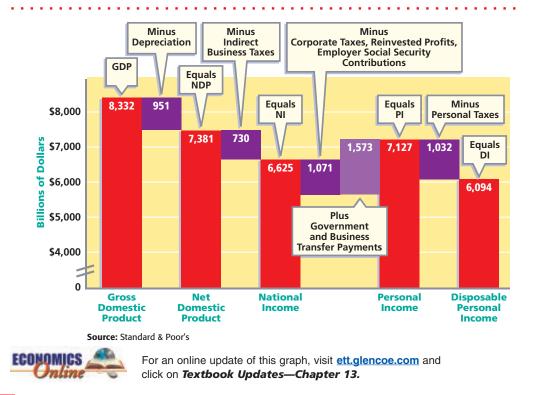
Five major statistics measure the national economy. These are gross domestic product, net domestic product, national income, personal income, and disposable personal income. Each will be examined separately, starting with the largest overall measurement-gross domestic product. Figure 13.1 shows gross domestic product and the other four measurements in descending order of value.

Measuring GDP

gross domestic product (GDP): The broadest measure of the economy's size is **gross domestic** total dollar value of all final goods **product (GDP).** This is the total dollar value of all *final* goods and services produced in a nation and services produced in the nation during a single year. This



GDP and its Components Economists start with GDP and subtract various items until they reach the figure measuring disposable personal income-the amount of money people have left to spend after they pay taxes. What is the difference in dollars between gross domestic product and disposable personal income?



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in a single year

Meeting Special Needs

Abstract Reasoning Difficulties Some students have difficulty with abstract information. They may grasp more concrete concepts, such as individual income, but may be confused by the use of income statistics. Work through the calculations of GDP, NDP, NI, PI, and DI. Help students see how the total economic activity of the country affects communities, businesses, and families. Students will be better able to grasp national accounting statistics if they understand that these numbers are relevant to their own lives.

Refer to Inclusion for the Social Studies Classroom Strategies and Activities for students with different learning styles.

figure tells the amount of goods and services produced within the country's borders and made available for purchase in that year.

Measuring Value Note the word *value* in the definition. Simply adding up the quantities of different items produced would not mean much. Can we really measure the strength of the economy, for example, if we know that 3 billion safety pins and 2 space shuttles were produced?

What we need to know is the total *value* of the items, using some common measure. Economists use the dollar as this common measure of value. As a result, GDP is always expressed in dollar terms. For example, in 1999, GDP for the United States totaled more than \$9 trillion.

Measuring Final Goods and Services The word *final* in the definition of GDP is also important. Measuring the economy's performance accurately requires that economists add up only the value of final goods and services to avoid *double counting*. For example, GDP does not add the price of computers and memory chips and motherboards if those chips and motherboards are installed in computers for sale. The final price to the buyer already includes the price of the memory chips and motherboards. Also, only new goods are counted in GDP. The sale price of a used car or a secondhand refrigerator is not counted as part of GDP. Such a sale is not due to the production of the nation, but only transfers a product from one owner to another. If a new battery is put in an old car, however, that new battery is counted as

part of GDP. See Figure 13.2.

Computing GDP To total the amount of GDP, economists add the expenditures made in four categories of the economy. The first category is the *consumer sector* (*C*), or those goods and services bought by consumers for their direct use. The second category is the investment sector (I), or business purchases of tools, machines, buildings, and so on, used to produce other goods. This area also includes money spent on business inventories.

Point out that the Census Bureau collects information on personal income for large metropolitan areas in the United States. Then organize students into several groups, and have groups use the most recent edition of the Statistical Abstract of the United States to find the top 10 metropolitan areas in terms of personal income. Have them note how personal income has changed for these metropolitan areas over time. Have groups present their findings in annotated graph form. Encourage groups to display and discuss their graphs. BLOCK SCHEDULING



Avoiding Double Counting

When calculating GDP, economists count only the value of the final product. The intermediate products that go into making a loaf of wheat bread-wheat that was milled into wheat flour-are not counted in GDP. Only the price of the loaf of bread is counted.

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ECONOMICS Student Web Activity Visit the Economics Today and Tomorrow Web site at ett.glencoe.com and click on Chapter 13—Student Web Activities to learn about your gross state product.

Measuring the Economy's Performance 345

Cooperative Learning

CHAPTER 13

SECTION 1, Pages 343-348

Guided Reading Activity 13–1

GUIDED READING Activity 13-1

with the textbook papers 343_348 NATIONAL INCOME ACCOUNTING FILLING IN THE BLANKS





Measuring the Economy's Performance



ASK: What is gross domestic product? the total dollar value of all final goods and services produced in the United States in a single year

Also available in VHS.

Project Economic Concepts Transparency 13 and have students discuss the accompanying questions.



See the Web Activity Lesson Plan at ett.glencoe.com for an introduction, lesson description. and answers to the Student Web Activity for this chapter.

Independent Practice

L1 Constructing Graphs Have students locate data and then construct a double line graph showing GDP and NDP for the United States for a recent 10-year period. Direct students to write a caption for the graph that explains which of the two measures more accurately reflects the actual productivity of the economy. ELL

Visual Instruction FIGURE 13.3

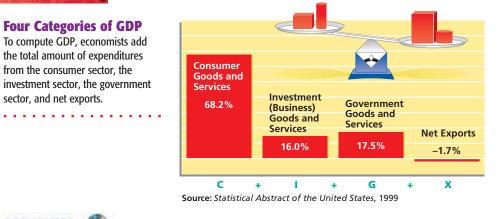
Have students study Figure 13.3. ASK: Which sector of the economy receives disposable per sonal income? consumer sector

L2 Applying Ideas Point out to students that economists refer to the unpaid work that is not included in GDP as nonmarket transactions. Have students record the nonmarket activities they see over a set period of time. Ask students to explain why each of the listed activities is a nonmarket transaction.



Four Categories of GDP

To compute GDP, economists add the total amount of expenditures from the consumer sector, the investment sector, the government sector, and net exports.



For an online update of this graph, visit ett.glencoe.com and click on Textbook Updates—Chapter 13.

net exports: difference betwee what the nation sells to other countries and what it buys from other countries

ECONOMICS

The government sector (G) makes up the third category added to GDP. The goods and services bought by federal, state, and local governments range from paper clips to jets. The final category is **net exports** (*X*), or the difference between what the nation sells to other countries (exports) and what it buys from other countries (imports). This figure may be a plus or minus depending on whether the nation sells more or less to other nations than it buys from them. See Figure 13.3.

Weaknesses of GDP The statistics used in computing GDP are accurate only to a point. Statistics about easily measurable things, such as government purchases, are reliable. Some workers, however, are given food, fuel, or housing as part of their



part of GDP, even though it adds to the nation's output. This category includes lawn mowing, maintenance work on a home, baby-sitting, and so on. The government cannot estimate the value of this work accurately

Extending the Content

Weaknesses of GDP as a Measurement Tool Another weakness of GDP is that it measures only the value of quantity, not quality. For example, people buy lightbulbs, but what they really want is light. Lightbulbs can be counted in GDP, but the light they produce is not figured in. Because of technological developments, the quality of light has increased and, therefore, the price of light has fallen. However, GDP measures show a doubling in the price of lightbulbs. As a result, GDP figures may be inaccurate.

wages. GDP can include only an estimate of the value of such goods and services. Moreover, as **Figure 13.4** shows, GDP omits certain areas of economic activity such as unpaid work.

Net Domestic Product

The loss of value because of wear and tear to durable goods, such as automobiles and refrigerators, is called **depreciation**. The same concept applies to capital goods-machines and equipment. GDP disregards depreciation. It does not take into account that some production merely keeps machines and equipment in working order and replaces them when they wear out.

Net domestic product (NDP)–another way of measuring the economy-accounts for the fact that some production is only due to depreciation. NDP takes GDP and subtracts the total loss in value of capital goods caused by depreciation.

Measurements of Income

So far, you've learned about GDP and NDP-two major measurements of the nation's output. Three additional measurements look at income-national income, personal income, and disposable personal income.

National Income The total amount of income earned by everyone in the economy is called **national income (NI)**. NI includes those who use their own labor to earn an income as well as those who make money through the ownership of the other factors of production. NI is equal to the sum of all income resulting from five different areas of the economy. These include wages and salaries, income of self-employed individuals, rental income, corporate profits, and interest on savings and other investments.

If you look again at Figure 13.1 on page 344, you'll see that national income is equal to NDP minus indirect business taxes, which includes such items as sales taxes and license fees.

GDP and Depreciation In recent years, the amount used by economists to account for depreciation has been a little more than 10 percent. In 1998, for example, GDP was about \$8.3 trillion. Subtracting some \$950 billion for depreciation produced an NDP of about \$7.4 trillion. Because NDP accounts for depreciation, it is a better measure of the economy's actual productivity than GDP.

depreciation: loss of value because of wear and tear to durable goods and capital goods

net domestic product (NDP): value of the nation's total output (GDP) minus the total value lost through depreciation on eauipment



Per Capita GDP

One picture of a country's standard of living comes from computing its real GDP per capita-or GDP divided by the total population. This is a measure of the average GDP per resident of a country. Listed below are the 10 nations with the highest per capita GDP.

Luxembourg	\$33,119
United States	\$29,326
Norway	\$26,771
Switzerland	\$25,902
Denmark	\$25,514
Iceland	\$24,836
Japan	\$24,574
Canada	\$23,761
Belgium	\$23,242
Austria	\$23,077

national income (NI): total income earned by everyone in the economy



Measuring the Economy's Performance

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Relevant Issues in Economics

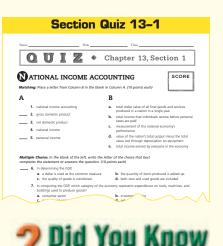
CHAPTER 13 SECTION 1. Pages 343-348

3 Assess

Meeting Lesson Objectives

Assign Section 1 Assessment as homework or an in-class activity.

Use Interactive Tutor Self-Assessment Software to review Section 1.



Remind students that the study of the economy as a whole is known as macroeconomics. When analyzing macroeconomics, economists essentially are looking at the "big picture" of the economy.



Reteach

Have students write summary paragraphs on each of the following subjects: National Income Accounting, Measuring GDP, Net Domestic Product, Measurements of Income.

Reading Essentials and Study Guide 13-1 STUDY GUIDE Chapter 13, Section 1 NATIONAL INCOME ACCOUNTING KEY TERMS net exports This figu amount of goods sold e of goods bought from other countr

lose

348

DRAWING FROM EXPERIENCE

Have students discuss why economists consider the practice of national income accounting so important.

personal income (PI): total income that individuals receive before personal taxes are paid

transfer payments: welfare and other supplementary payments that a state or the federal government makes to individuals

disposable personal income

(DI): income remaining for peo

ple to spend or save after all

taxes have been paid

Personal Income The total income that individuals receive before personal taxes are paid is called **personal income (PI)**. PI can be derived from NI through a two-step process. First, several items are subtracted: corporate income taxes, profits that businesses reinvest in business to expand, and Social Security contributions employers make. These items are subtracted because they represent income that is not available for individuals to spend.

Then transfer payments are added to NI. Transfer payments are welfare payments and other assistance payments-unemployment compensation, Social Security, and Medicaid-that a state or the federal government makes to individuals. These transfer payments add to an individual's income even though they are not exchanged for any current productive activity.

Disposable Personal Income The income that people have left after taxes, including Social Security contributions, is called disposable personal income (DI). DI equals PI minus personal taxes. DI is an important indicator of the economy's health because it measures the actual amount of money income people have available to save and spend.

> 0 Practice and assess key skills with Skillbuilder Interactive Workbook, Level 2.

SECTION Assessment

Understanding Key Terms

1. Define national income accounting, GDP, net exports, depreciation, NDP, NI, PI, transfer payments, DI.

Reviewing Objectives

- 2. What four categories of economic activity are used to measure GDP?
- 3. Graphic Organizer Create a diagram like the one below to show what must be subtracted from and added to national income to determine personal income

National Income \rightarrow minus \rightarrow Personal Income

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4. Gross Domestic Product List five items you have recently purchased. Explain why they should or should not be counted in GDP. Use the terms value, final, and double counting in vour explanations.

Critical Thinking Activity

Applying Economic Concepts

5. Synthesizing Information Reconstruct Figure 13.1 on page 344 in the form of a spreadsheet. Start with the dollar figure for GDP, then subtract the dollar figure of depreciation to get NDP. Continue until you have tabulated DI.

Assessment Answers

- 1. All definitions can be found in the Glossary. 2. consumer sector, investment sector, government sector, net exports
- 3. To derive personal income from national income, corporate income taxes, reinvested business profits, and Social Security contributions made by employers are subtracted; and transfer payments-welfare and other assistance payments-are added.
- 4. Answers will vary. Call on volunteers to present and discuss their lists.
- 5. Encourage students to display and compare their spreadsheets.

Study & Writing Skills **Taking Notes**

Effective note taking involves more than just writing facts in short phrases. It involves breaking up much of the information into meaningful parts so that it can be understood and remembered.

When taking notes on material presented in class, write the key points and important facts and figures in a notebook.

- Writing quickly and neatly, use abbreviations and phrases.
- Copy words, statements, or diagrams drawn on the chalkboard.
- Ask the teacher to repeat important points you have missed or do not understand.
- When studying textbook material, organize your notes into an outline (see page 406 for hints on outlining).
- For a research report, take notes on cards. Note cards should include the title, author, and page number of sources.

0

P

2. 3.

1.

Answers to Practicing the Skill

Practice and assess

key skills with

Skillbuilder Interactive

Workbook, Level 2.

Notes and note-taking styles will vary. Encourage students to use their notes to write a summary of Section 1.

Application Activity Summaries will vary. Call on volunteers to share their notes and summaries with the rest of the class



Learning the Skill

To learn how to take good notes, follow the steps listed on the left.

Practicing the Skill

Suppose you are writing a research report on the United States GDP. First, identify main-idea questions about this topic, such as "What does GDP measure?" "What components make up GDP?" and "What are the weaknesses of using GDP to measure the economy?" Then find material about each main-idea question. Using this textbook as a source, read the material in Section 1 and prepare notes like this:

Main Idea: What does GDP measure?

1. GDP is prt of nat'l inc. acct.

2. NIC measrs amt of gds & serv prducd yrly

3. GDP = tot \$ vlu of final gds & srvs prdcd in U.S. in 1 yr.

Main Idea: What components make up GDP?

Application Activity

Scan a local newspaper for a short editorial or article about the nation's GDP. Take notes by writing the main idea and supporting facts. Summarize the article using only your notes.

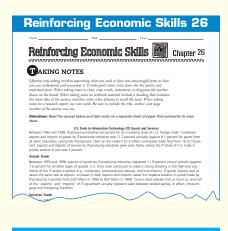
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Taking Notes

Review with students the guidelines to taking notes. As you work through the guidelines, call on volunteers to summarize each point. Then have students study the sample notes included in Practicing the Skill. Ask them to translate the abbreviations used in the notes. If students have difficulty, point out that note taking is an individual and personal activity. As long as notes are clear to the writer, any system of shorthand is acceptable.

Assist students with the Practicing the Skill activity, reviewing their finished notes. Then assign the Application Activity.



GLENCOE TECHNOLOGY

Glencoe Skillbuilder Interactive Workbook, Level 2

This interactive CD-ROM reinforces student mastery of essential social studies skills.

1 Focus **Overview**

Section 2 describes the effect of inflation on purchasing power and explains how consumer and producer price indexes and real GDP are used to measure changes in average prices.

BELLRINGER **Motivational Activity**

Project Daily Focus **Transparency 54** and have students answer the questions. This activity is also available as a blackline master.

Daily Focus Transparency 54

FOCUS ACTIVITIES INFLATION Time Place Description percent. The economic crisis was a factor in Adolf . What type of inflation is each example listed in the table 2. What is the highest inflation rate ever recorded in the United

Reader's Guide

Answers to the **Reading Objectives** questions are on page 354.

Preteaching Vocabulary

Have students use the Terms to Know to create two word webs. one titled "Inflation and Purchasing Power" and the other titled "Measuring Inflation."

Vocabulary PuzzleMaker



Correcting Statistics for Inflation

Reader's Guide

Terms to Know

- inflation
- purchasing power deflation
- consumer price index (CPI)
- market basket
- base year
- producer price index (PPI)
- GDP price deflator
- real GDP

Reading Objectives

- 1. What is the relationship between the purchasing power of money and the rate of inflation?
- 2. How do the consumer price index and the producer price index differ in what they measure?

inflation: prolonged rise in the general price level of goods and services

COVER STORY

BUSINESS WEEK, MAY 31, 1999

In Wall Street's galaxy, the Phantom Menace is inflation. It's the Dark Side of the economy's Force. The financial markets know that [nonexistent] inflation is the single most important factor supporting the economy's amazing performance of recent vears. . . .

That's why the May 14 news of an unexpected 0.7% jump in the April consumer price index, the largest monthly rise in more than nine years, looked as scary as Darth Maul wielding his light saber.

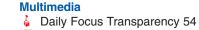
n Section 1, you learned how GDP statistics measure the economy. You also learned that GDP figures can be unreliable because they do not measure unpaid work or depreciation. Another factor that skews GDP figures is inflation, or a prolonged rise in the general price level of goods and services. As mentioned in the *Cover Story* above, the presence of inflation can pose a threat to the economy. In this section, you'll learn how inflation affects the current dollar value of GDP as well as your ability to purchase goods and services.

350 CHAPTER 13

SECTION 2 **RESOURCE MANAGER**

Reproducible Masters

- Exproducible Lesson Plan 13–2
- Reading Essentials and Study Guide 13–2
- Guided Reading Activity 13–2
- Section Quiz 13–2
- Daily Focus Activity 54 Daily Lecture Notes 13–2



- Vocabulary PuzzleMaker
- Interactive Tutor Self-Assessment Software
- ExamView[®] Pro Testmaker
- MindJogger Videoguiz
- Presentation Plus!

The Purchasing Power of Money

When is a dollar not a dollar? When inflation occurs, the prices of goods and services rise. Therefore, the **purchasing power** of the dollar goes down. A dollar's purchasing power is the real goods and services that it can buy. In other words, a dollar cannot buy the same amount as it did before inflation.

How does a drop in the dollar's purchasing power skew GDP? The higher GDP figures that result from inflation do not represent any increase in output. For example, last year an ice-cream cone may have cost \$1.00. This year it may cost \$1.95. The physical output-in this case, one ice-cream cone-has not changed; only its money value has. To get a true measure of the nation's output in a given year, inflation must be taken into account. **Deflation**, a prolonged *decline* in the general price level, also affects the dollar value of GDP, but deflation rarely happens.

Measures of Inflation

The government measures inflation in several ways. The three most commonly used measurements are the consumer price index, the producer price index, and the implicit GDP price deflator.

Consumer Price Index (CPI) Every month, the government measures the change in price of a specific group of goods and services that the average household uses. This measurement is the **consumer price index (CPI)**. The group of items that are

MATH **Economic Connection to...**

Compiling the CPI

hen compiling the CPI, the Bureau of Labor Statistics (BLS) does not record every price of every product bought by everyone in the United States. The BLS instead tries to get a *representative* picture of the prices paid by consumers for all products. A national sample of some 29,000 families provides the BLS with information on



Study Strategy Students with learning problems often have difficulty generalizing the use of strategies from one situation to another. They need to have periodic review of both the steps of the strategy they are using and the procedures that are used in each of the steps. Tell students that in this section they will use the study strategy independently. Have each student draw a chart with grids to self-evaluate each one of the following: Did I skim for titles, headings, and main ideas? Did I ask guestions? Did I answer my guestions? Refer to Inclusion for the Social Studies Classroom Strategies and Activities for

students with different learning styles.

///FLATION

purchasing power: the real goods and services that money can buy; determines the value of monev

deflation: prolonged decline in the general price level of goods and services

consumer price index (CPI): measure of the change in price over time of a specific group of goods and services used by the average household

their spending habits. This enables the BLS to put together the market basket and to "weight" items according to consumer spending. For example, housing items are given more weight, or importance, than recreation items because most consumers spend more on housing than on recreation.

Meeting Special Needs

CHAPTER 13 SECTION 2. Pages 350-354

2 Teach **Guided Practice**

L1 Illustrating Ideas Review the information on inflation and purchasing power. Then ask students to present the relationship between the rate of inflation and the purchasing power of money in a diagram. If students have difficulty, you might suggest that they draw a "shrinking" dollar that gets smaller as prices rise. Or you might suggest that they draw two arrows, one pointing upward, the other pointing downward. Direct students to title, illustrate, and annotate their diagrams. Call on volunteers to present and explain their diagrams to the class. **ELL**

Daily Lecture Notes 13-2

DAILY LECTURE NOTES Lesson 13-2

L ECTURE LAUNCHER

In the 1970s the primary goal of the Federal Reserve was to lower inflat went up. Buttons were distributed that said WIN, an acronym for Whip I

PAGE 351

- A. When inflation occurs, the prices of goods and services rise, and the of the dollar ones down
- B. Purchasing power of a dollar is equal to the real goods and services the dollar can buy
- Inflation can also be defined as the decline in the purchasing power of mo
- D. Faster the rate of inflation, greater the drop in purchasing power E. Inflation must be taken into account when calculating the GDI

Discussion Question Why is it important to take

Economic Connection to... MATH

In compiling the CPI, the BLS also uses a national sample of about 24,000 families to find out the kinds of stores where people shop.

CHAPTER 13 SECTION 2, Pages 350-354

Visual Instruction FIGURE 13.5

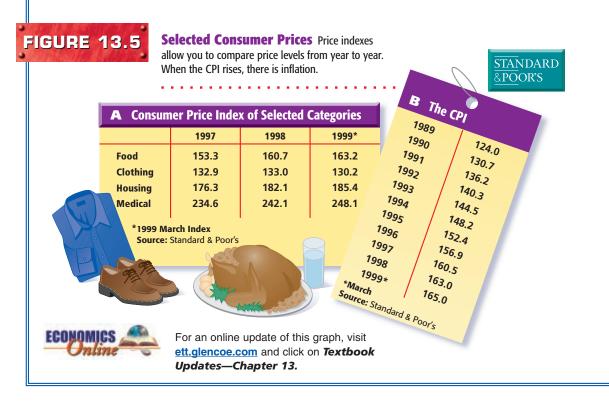
Discuss with students how increases in the CPI often mean that people have more money, because prices and wages often rise at the same time. However, this extra money has less purchasing power.

Guided Reading Activity 13-2

	ase with the textbook pages 350-354
5	ORRECTING STATISTICS FOR INFLATION
Þ	CALLING THE FACTS
	ctions: Use the information in your textbook to answer the questions.
١.	What is inflation?
2.	What is a dollar's purchasing power?
ι.	How does a drop in the dollar's purchasing power affect GDP?
ι.	How are deflation and inflation similar and different?
	Similarities:

Independent Practice

L2 Analyzing Trends Have students consult the most recent editions of the Statistical Abstract of the United States and the Economic Report of the President to find CPI and PPI statistics for the 1990s. Have them use their findings to write a paragraph on inflation trends during the decade. Suggest that students illustrate their paragraphs with charts and graphs. BLOCK SCHEDULING



market basket: representative group of goods and services used to compile the consumer price index

base year: year used as a point of comparison for other years in

a series of statistics

priced, called a **market basket**, includes about 90,000 specific goods and services under general categories such as food, housing, transportation, apparel, education, recreation, medical care, and personal care. About every 10 years, the market basket is updated to include new products and services and to reflect more current spending patterns. Part A of Figure **13.5** has broken down the CPI into several major categories, whereas Part B shows the overall CPI for several years.

Employees at the federal Bureau of Labor Statistics (BLS) compile the CPI monthly. They start with prices from a **base year** so that they have a point of comparison for current-day prices. For example, if you paid \$1.00 for an ice-cream cone in 1998, and the price of the cone increased to \$1.95 in 2001, the cost of an icecream cone has risen 95 cents (and in this case, 95 percent) since 1998 (\$1.95 - 1.00 = .95).

In compiling the CPI, the BLS's base year is really the average of prices that existed for the three years 1982 to 1984. This base is given a value of 100. CPI numbers for later years indicate the percentage that the market basket price has risen since the base year.

352 CHAPTER 13

Cooperative Learning

Inform students that economists use the term hyperinflation to describe a situation where the rate of inflation is so high that prices change weekly or daily. Organize students into several groups, and have groups research an example of hyperinflation. If students have difficulty finding an example, you might suggest Germany after World War I or Latin America in the 1980s. Have groups use their findings to create an illustrated report. Direct groups to cover such topics as what caused hyperinflation, what was the impact of hyperinflation on the economy, and how hyperinflation was brought under control.

For example, the 1999 March CPI of 165.0 means that the average price of goods and services in the market basket has risen 65.0 percent since the period 1982-1984 (165.0 - 100 = 65.0). The price level, therefore, rose 65 percent since 1982-1984. The CPI can also be used to calculate inflation for any period, as shown in Figure 13.6.

Producer Price Index Another important measure of inflation is the **producer price index (PPI)**. The PPI is actually a group of indexes that measures the average change in prices that United States producers charge their customers–whether these customers are other producers buying crude materials for further processing or wholesalers who will sell the products to retailers or directly to consumers. Most of the producer prices included in the PPIs are in mining, manufacturing, and agriculture. The PPIs usually increase before the CPI. Apple producers, for

example, may experience a weak harvest. Because of the shortage of apples, the price of apples rises. A bakery that buys apples will eventually increase the price of its apple pies to cover the higher price of apples. Eventually the CPI will increase because consumers will have to pay more for the final products-in this case, apple pies. Therefore, changes in the PPIs often are watched as a hint that inflation and the CPI are going to increase.

GDP Price Deflator Government economists account for inflation by issuing another measure of price changes in GDP, called the GDP price deflator. This index removes the effects of inflation from GDP so that the overall economy in one year can be compared to another year. When the price deflator is applied to GDP in any year, the new figure is called **real GDP**.

The federal government uses 1992 as its base year to measure real GDP. Each year the price deflator is used to change current, or inflated, GDP to real GDP. For example, GDP in current dollars for 1998 was \$8,511.0 billion. To find real GDP for 1998, the government divides 1998 GDP by the 1998 price deflator (112.7) and multiplies the result by 100:

 $\$8,511.0 \div 112.7 \times 100 = \$7,551.9$

Real GDP for 1998 was \$7,551.9 billion. This figure may now be compared to 1992 GDP of \$6,244.4 billion. This is a more meaningful comparison than comparing 1998 GDP in inflated dollars to 1992 GDP. Figure 13.7 on page 354 shows both current GDP and real GDP (in chained [1992] dollars).

Relevant Issues in Economics

The CPI and Product Quality Economists and policy makers who analyze price indexes to forecast inflation and determine the cost of living know that these indexes are not perfect. Price indexes do not always measure real change because they cannot fully account for changes in quality. For example, prices of color printers may rise 5 percent from one vear to the next. However, the level of improvement in the quality of the printers may be much greater than 5 percent. Thus, the cost of living may not have risen much at all.

producer price index (PPI):

measure of the change in price over time that United States producers charge for their goods and services

GDP price deflator: price index that removes the effect of inflation from GDP so that the overall economy in one year can be compared to another year

real GDP: GDP that has been adjusted for inflation by applying the price deflator



Calculating Inflation At the end of 1991, the CPI was 136.2. In March 1999 it was 165.0, which is a difference of 28.8 (165.0 - 136.2 = 28.8). If we now use 1991 as the base year, we can find out by what percentage consumer prices on average rose from 1991 to 1999. We do this by dividing 28.8 by 136.2, which gives us 0.2114 (28.8 ÷ 136.2). When we multiply by 100 to give the result as a percent, we get 21.14 percent.



CHAPTER 13 SECTION 2. Pages 350-354

3 Assess

Meeting Lesson Obiectives

Assign Section 2 Assessment as homework or an in-class activity.

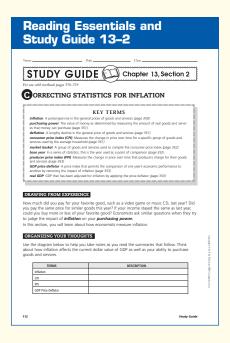
Use Interactive Tutor Self-Assessment Software to review Section 2.

Section Quiz 13-2 **O U I Z** • Chapter 13, Section 2 **C**ORRECTING STATISTICS FOR INFLATION purchasing po b. price deflator d. price index b. income levels. d. quantity of good b. increase in the d. increase in pun

SECTION 2. Pages 350-354

Reteach

Have students write summary paragraphs explaining the consumer price index, the producer price index, and the GDP price deflator.



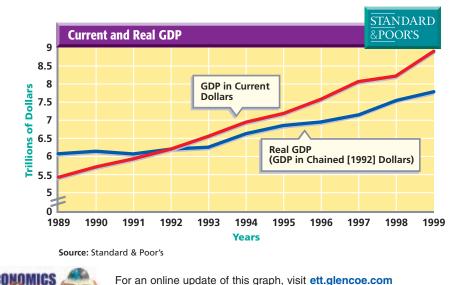
Close

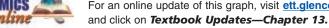
Discuss with students why indicators such as CPI, PPI, and the GDP price deflator are useful to businesses, government, and consumers.

FIGURE 13.7

GDP in Current and Chained (1992) Dollars Real GDP has been adjusted for inflation using 1992 as a base year.

.





0 Practice and assess key skills with Skillbuilder Interactive Workbook, Level 2.

What It Measures

SECTION 2 Assessment

Understanding Key Terms

1. Define inflation, purchasing power, deflation, consumer price index, market basket, base year, producer price index, GDP price deflator, real GDP.

Reviewing Objectives

- 2. What is the relationship between the purchasing power of money and the rate of inflation?
- 3. Graphic Organizer Use a chart like the one in the next column to show the difference between what the CPI and the PPI measure.

354 CHAPTER 13

Applying Economic Concepts

Index

4. Market Basket If you were to construct a market basket of goods and services that students typically consume, what would you select?

Critical Thinking Activity

5. Making Predictions If the PPIs measuring crude oil, agricultural products, and lumber decrease for three months in a row, what prediction could you make about the CPI?

BusinessWeek **SPOTLIGHT ON THE ECONOMY**

Unveiling the Secrets of the CPI

Check It Out! In this chapter you learned about the consumer price index (CPI). In this article, read to learn about several weaknesses of the CPI and how the Bureau of Labor Statistics (BLS) tries to overcome these weaknesses.

The government tracks inflation in various forms. For instance, the producer price index (PPI) captures changes in prices charged by U.S. goods producers. . . . For the best inflation reading, however, markets look to the CPI. It is the most comprehensive indicator because it covers all goods and services purchased by households. It's the timeliest because the report is released . . . about two weeks after the end of each month. The CPI does include sales and excise taxes.

The CPI is not perfect. The elderly complain that the CPI, although used for adjusting Social Security checks, misses price hikes on drugs. Increases in property taxes show up only indirectly when the BLS calculates rents. And if your employer increases your health-insurance premium, the CPI won't reflect it.

The BLS counters that the consumer price index's aim is to measure prices for a specific basket of goods and services that the average household buys, according to

surveys done from 1993 to 1995. This set basket leads to the biggest rap on the CPI: It

Assessment Answers

- 1. All definitions can be found in the Glossary.
- 2. The purchasing power of money declines as inflation increases.
- 3. CPI measures change in price over a specified period of time of a group of specific goods and services that the average household uses; PPI measures the average change in prices that United States producers charge their customers.
- 4. Answers will vary. Have students share and compare their market baskets.
- 5. Since the PPIs tend to lead the CPI, there will be a decrease in the CPL

Answers to Think About It

- hold buys
- 2. Criticisms include: Certain price increases—on drugs, property taxes, and health basket. CPI does not account for quality adjustment.





does not allow for substitution. Say, a drought in Washington means a price jump for Red Delicious apples. Consumers might buy cheaper Granny Smiths. But the CPI would still give more weight to the price of Red Delicious apples.



In the mid-1990s, economists criticized the CPI for overestimating inflation. . . . For one thing, said economists, the BLS took too long to include new products, and thus the CPI failed to capture the price reductions that take place in the first years of a product's lifetime. Cell phones, for instance, were costly to use when they were introduced in the 1980s. But competition brought the connection fees down rapidly. However, the BLS did not include cellular phones in the CPI until 1998.

Quality adjustment is another problem. How does the BLS account for air bags in cars, which add costs but save lives?

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Think About It

- 1. What does the CPI measure?
- 2. What are three criticisms of the CPI?

Measuring the Economy's Performance 355

1. changes in prices for a specific basket of goods and services that the average house-

insurance premiums, for example-are not reflected in the CPI. The CPI does not allow for substitutions-consumers often substitute when prices of certain goods rise. It overestimates inflation by taking too long to include new products in the market

Teach

Work through the criticisms of the CPI with students. When discussing substitution, point out that the CPI may be thrown off by consumers switching stores. The CPI compares prices in the same stores over time. If, when prices rise, consumers switch to discount stores that charge lower prices, the CPI will exaggerate what shoppers are actually paying. ASK: Why are people concerned that the CPI might be overestimating inflation? Most students will point out that Social *Security payments and some pay* raises are tied to inflation.

BusinessWeek

To find up-to-date news and analysis on the economy, business, technology, markets, entrepreneurs, investments, and finance. have students search feature articles and special reports on the Business Week Web site.

www.businessweek.com

Sidelight

The Boskin Commission, set up by the United States Senate Finance Committee in 1996 to examine the CPI, found that the index overestimated inflation by about 1.1 percentage points.



1 Focus **Overview**

Section 3 provides an analysis of aggregate demand and aggregate supply in the economy.

BELLRINGER **Motivational Activity**

Project **Daily Focus** Transparency 55 and have students answer the questions. This activity is also available

as a blackline master.

Daily Focus Transparency 55 FOCUS ACTIVITIES **A**GGREGATE SUPPLY AND AGGREGATE DEMAND Delaw (D 1. What is the effect of an increase in income caused by a world . What is the effect of an increase in oil prices on a nation's aggregate supply, output, and price?

Reader's Guide

Answers to the **Reading Objectives** questions are on page 359.

Preteaching Vocabulary

On the board, draw a simplified sketch of Figure 13.10. Have students copy the sketch into their notebooks and label the aggregate demand curve and aggregate supply curve.

Vocabulary PuzzleMaker

3 SECTION

Aggregate Demand and Supply

Reader's Guide

- **Terms to Know**
- aggregates
- aggregate demand • aggregate demand curve
- · aggregate supply
- aggregate supply curve

Reading Objectives

- 1. Why is there an inverse relationship between aggregate quantity demanded and the price level?
- 2. What causes the aggregate supply curve to slope upward?
- 3. How do you use aggregate demand and supply analysis to determine the equilibrium price level?

aggregates: summation of all the individual parts in the economy

aggregate demand: total quantity of goods and services in the entire economy that all citizens will demand at any single time

356 CHAPTER 13



KIPLINGER'S PERSONAL FINANCE MAGAZINE, NOVEMBER 1998

It will take a few years for the global economy to achieve a new equilibrium between manufacturing production and consumer demand. Many goods are now in oversupply, and consumer demand is impaired by falling currencies and growth-inhibiting governmental policies. . . . But these are cyclical imbalances of the sort that have occurred for decades and will keep recurring from time to time.

s mentioned in the *Cover Story* above, the laws of supply and demand can be applied to the economy as a whole, A swell as to individual consumer decisions. Economists are interested in the demand by all consumers for all goods and services, and the supply by all producers of all goods and services. When we look at the economy as a whole in this way, we are looking at **aggregates**-the summing up of all the individual parts in the economy. As you'll learn in this section, we call these sums aggregate demand and aggregate supply.

Aggregate Demand

Aggregate demand is the total quantity of all goods and services in the entire economy demanded by all people. How can we find out the aggregate quantity of goods and services that all citizens will demand at any single point in time? To answer this

nguage Disability Restating is difficult for students with language problems. They en have trouble finding synonyms for words in the text. Explain that the point of restatis for them to use common language and not to make it sound like the textbook. Have idents read through the section for words that might be somewhat complex and restate em in their own words.

Refer to Inclusion for the Social Studies Classroom Strategies and Activities for idents with different learning styles.

FIGURE 13.8

Aggregate Demand Curve Although the curve for aggregate demand resembles that for simple demand, it is for the entire economy, not just one good or service. Aggregate demand may increase (curve shifts to the right) if consumers collectively spend more and save less or if better economic conditions are forecast. Aggregate demand may decrease (curve shifts to the left) if higher taxes are imposed on the overall economy or if bleak economic conditions are forecast.

question, we have to relate aggregate demand to something else. As you remember from Chapter 7, the basic law of demand relates the quantity demanded of a specific product to its price. When discussing aggregates, however, we are talking about all products. Because there are millions of different prices for all products, aggregate demand cannot be related to prices.

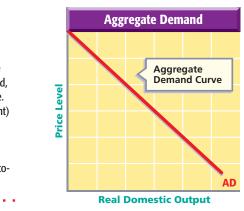
Instead, aggregate demand is related to the *price level*-the average of all prices as measured by a price index. If we use the implicit GDP price deflator as our index, our measure of aggregate demand will be based on real (adjusted for inflation) domestic output. You can see this relationship in Figure 13.8. It is called the **aggregate demand curve**.

Notice the similarity between the aggregate demand curve labeled AD in Figure 13.8 and the individual demand curve you studied in Chapter 7 (page 179). Both of these curves slope downward, showing an inverse relationship. As the price level in the nation's economy goes down, a larger quantity of real domestic output is demanded per year. This change in quantity demanded is shown as a movement *along* the AD curve.

There are two main reasons for this inverse relationship. One involves the real purchasing power of your cash, and the other concerns the relative price of goods and services sold to other countries.

Consider the first reason. Inflation causes the purchasing power of your cash to go down. Deflation causes your purchasing power to go up. Therefore, when the price level goes down, the purchasing power of any cash that you hold will go up. You and everyone else will feel slightly richer because you are able to buy more goods and services.

SECTION 3 RE	Source Manager 🧶	
Reproducible Masters Reproducible Lesson Plan 13–3 Reading Essentials and Study Guide 13–3 Guided Reading Activity 13–3 Section Quiz 13–3 Daily Focus Activity 55 Daily Lecture Notes 13–3	Multimedia Daily Focus Transparency 55 Economic Concepts Transparencies 14, 15 Vocabulary PuzzleMaker Interactive Tutor Self-Assessment Software ExamView [®] Pro Testmaker MindJogger Videoquiz Interactive Economics! Presentation Plus!	



Measuring the Economy's Performance 357

deflator

aggregate demand curve:

a graphed line showing the

relationship between the aggre

average of all prices as meas-

ured by the implicit GDP price

gate quantity demanded and the

Meeting Special Needs

CHAPTER 13 SECTION 3, Pages 356-359

2 Teach **Guided Practice**

L2 Understanding Ideas Have students review Figure 13.8 on page 357 and Figure 13.9 on page 358. ASK: What might happen to the aggregate demand curve if consumers collectively save less and spend more? The curve would shift to the right, indicating an increase in aggregate demand. What would happen to the aggregate supply curve if there were a substantial increase in the cost of foreign oil? The curve would shift to the left, indicating a decrease in aggregate supply.

Daily Lecture Notes 13-3

DAILY LECTURE NOTES Lesson 13-3

LECTURE LAUNCHER

PAGES 356-358

Guided Reading Activity 13-3

GUIDED READING Activity 13-3

AGGREGATE SUPPLY AND DEMAND

RECALLING THE FACTS

- 3. Why does appregate demand have to be related to the price level, or the total average of all the prices
- 5 What are the two reasons there is an inverse relation shrwin on the annenate demand curr



Project Economic Concepts Transparencies 14 and 15 and have students discuss the accompanying questions.

Independent **Practice**

L2 Analyzing Ideas Have students write a short essay that discusses the value to businesses and government of knowing the nation's aggregate demand, aggregate supply, and equilibrium price level. Call on volunteers to read their essays to the class.



LESSON 6: MACROECONOMIC EQUILIBRIUM

Have students click on "The Aggregate Supply Curve." ASK: What do the vertical and horizontal axes show on the aggregate supply curve? The vertical axis shows an overall price level such as the consumer price level. The horizontal axis shows real GDP.

Supplied in both CD-ROM and disk formats.



Assign Section 3 Assessment as homework or an in-class activity. Use Interactive Tutor Self-Assessment Software to review Section 3.

As for the second reason, when the price level goes down in the United States, our goods become relatively better deals for foreigners who want to buy them. Foreigners then demand more of our goods as exports.

Aggregate Supply

Aggregate demand is only one side of the picture. Let us look at aggregate supply. As the price of a specific product goes up, and if all other prices stay the same, producers of that product find it profitable to produce more. The same is true for all producers in the economy over a short period of time. If the price level goes up and wages do not, overall profits will rise. Producers will want to supply more to the marketplace-they offer more real domestic output as the price level increases. The reverse is true as the price level falls. This is called **aggregate supply.** You can see this positive relationship in **Figure 13.9**– the **aggregate supply curve**.

Putting Aggregate Demand and Aggregate Supply Together

Just as we are able to compare demand and supply for a given product to find an equilibrium price and quantity, we can

Aggregate Supply

Aggregate Supply Curve

FIGURE 13.9

aggregate supply: real domestic

output of producers based on the

rise and fall of the price level

aggregate supply curve: a graphed line showing the relation-

ship between the aggregate

implicit GDP price deflator

quantity supplied and the average

of all prices as measured by the

Aggregate Supply Curve Similar to the individual supply curve, the aggregate supply curve shows the amount of real GDP that could be produced at various price levels. Aggregate supply increases (curve shifts to the right) when all firms experience lower costs of production due to lower taxes or interest rates or lower prices for foreign oil, for example. Aggregate supply decreases (curve shifts to the left) for the opposite reasons: higher taxes, higher interest rates, higher prices for foreign oil.

Producers



Cooperative Learning

Organize students into several groups. Have groups use library resources to locate discussions of the factors that might cause changes in aggregate supply and aggregate demand. Then have groups find and clip photographs from current newspapers and magazines that illustrate these factors. Direct groups to use these clippings to create an annotated collage on aggregate supply and demand. Have groups display their collages around the classroom. ELL PBLOCK SCHEDULING

FIGURE 13.10

National Output and the Price Level The intersection of aggregate demand and aggregate supply gives the equilibrium price level and national output (real domestic output).

.

140

compare aggregate demand and aggregate supply. We do this in Figure 13.10.

The equilibrium price level in our example is determined where the aggregate demand curve crosses the aggregate supply curve, or at a GDP price deflator of 140. The equilibrium quantity of real GDP demanded and supplied is \$9 trillion. As long as nothing changes in this situation, the economy will produce \$9 trillion of real domestic output, and the price level will remain at 140-there will be neither inflation nor deflation.

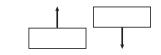
SECTION Assessment

Understanding Key Terms

1. Define aggregates, aggregate demand, aggregate demand curve, aggregate supply, aggregate supply curve.

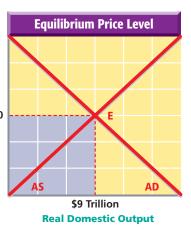
Reviewing Objectives

2. Graphic Organizer Create a diagram like the one below to show why there is an inverse relationship between aggregate quantity demanded and the price level



Assessment Answers

- 1. All definitions can be found in the Glossary.
- 2. Relationship is inverse because as price level falls, aggregate quantity demanded rises.
- 3. As prices rise, suppliers will produce more because they will enjoy greater profits.
- 4. Overlay aggregate demand and aggregate supply curves-where they intersect represents the equilibrium price level.



0 Practice and assess key skills with Ilbuilder Interactive Workbook, Level 2.



- 3. What causes the aggregate supply curve to slope upward?
- 4. How do you use aggregate demand and supply analysis to determine the equilibrium price level?

Applying Economic Concepts

5. Aggregate Demand What would happen to the aggregate demand curve if there was a massive tax cut?

Critical Thinking Activity

6. Synthesizing Information Draw a graph showing both an aggregate demand curve and an aggregate supply curve. Now assume that the price level increases. What happens to aggregate demand and aggregate supply?

Measuring the Economy's Performance **359**

- 5. The curve would move to the right, indicating an increase in aggregate demand.
- 6. Aggregate demand would decrease while aggregate supply would increase.

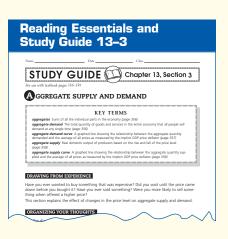
CHAPTER 13

SECTION 3. Pages 356-359

Same		D	ate		Class
01	JI	\mathbb{Z}	۲	Ch	apter 13, Section 3
GGREG	GATE I	ОЕМА	ND A	AND	SUPPLY SCORE
atching: Place a	letter from	Column B i	n the bla	ink in Coi	umn A. (10 points each)
A				в	
1. acoreca	tes			a	total quantity of goods and services in the entire
2. aqqreqa					economy that all citizens will demand at any single time
	te demand cu			h	time sum of all the individual parts in the economy
		rve			graph showing the relationship between aggregate
aggrega					quantity supplied and the average of all prices real domestic output of producers based on the rise
5. aggrega	te supply curv	0		а.	real domestic output of producers based on the rise and fall of the price level
				e.	graph showing the relationship between the aggregate quantity demanded and the average of all prices
	In the blank tement or an				of the choice that best ts each)
,	ate demand is	related to			b. price level.

Reteach

Have students summarize the meaning of each of the graphs in this section.



Close

Encourage students to write riddles, proverbs, or one-verse poems that explain the relationship between aggregate demand and price level and aggregate supply and price level.

1 Focus **Overview**

Section 4 describes the business cycle from peak through contraction or recession, and trough to recovery; and reviews business fluctuations in the United States.

BELLRINGER **Motivational Activity**

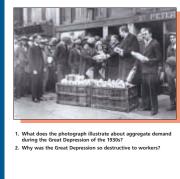
Project Daily Focus **Transparency 56** and have students answer the questions. This activity is also available

as a blackline master.

Daily Focus Transparency 56

FOCUS ACTIVITIES

BUSINESS FLUCTUATION



Reader's Guide

Answers to the Reading Objectives questions are on page 363.

Preteaching Vocabulary

Have students draw a wavy line, similar to the one in **Figure** 13.11, across a sheet of notepaper. Direct them to enter the terms peak, boom, contraction, recession, depression, trough, expansion, and *recovery* in appropriate places on the line. Then have students write the definition of each term below the diagram.

Vocabulary PuzzleMaker



Business Fluctuations

Reader's Guide

- **Terms to Know**
- business fluctuations
- business cycle
- peak
- boom contraction
- recession
- depression
- trough
- expansion
- recovery

Reading Objectives

- 1. What are the phases of a typical business cycle?
- 2. What have been the three most severe downturns in the United States economy since the 1920s?

business fluctuations: ups and downs in an economy

business cycle: irregular changes in the level of total output measured by real GDP

peak/boom: period of prosperity in a business cycle in which economic activity is at its highest noint

contraction: part of the business cvcle during which economic activity is slowing down



BUSINESS WEEK, JULY 19, 1999

Happy Birthday. The economic expansion is now 100 months old; six more months, and it will become the longest in U.S. history. But while its longevity gets all the attention, the expansion's most important characteristic may turn out to be its unusual quality. Driven by the kind of technological change that comes along once or twice in a century, this expansion is rewriting a lot of conventional economic wisdom.

ome years inflation is high; other years it is not. The same holds true for unemployment, world trade, and taxes. We A have fluctuations in virtually all aspects of our economy. The ups and downs in an economy are called **business fluctuations**. Some people associate these ups and downs in business activity with what has been called the **business cycle**–changes in the level of total output measured by real GDP.

Model of the Business Cycle

Figure 13.11 shows an idealized business cycle. According to this model, the phases of a business cycle begin with growth leading to an economic **peak** or **boom**–a period of prosperity. New businesses open, factories are producing at full capacity, and everyone who wants work can find a job.

Eventually, however, real GDP levels off and begins to decline. During this part of the cycle, a **contraction** of the economy

360 CHAPTER 13



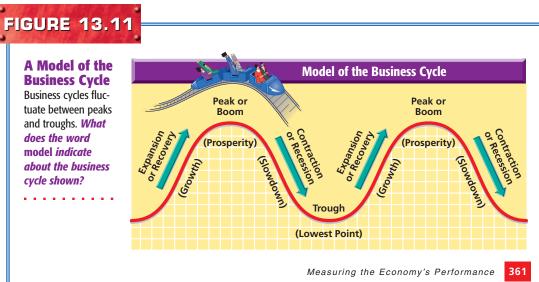
occurs. Business activity begins to slow down. If the contraction lasts long enough and is deep enough, the economy can continue downward until it slips into a recession.

A **recession** is any period of at least two quarters—six months during which real GDP does not grow. In a recession, business activity starts to fall at a rapid rate economy-wide. Factories cut back on production and lay off workers. Consumers, with less income, cut back on purchases. Faced with a worsening economy, fewer new businesses open and some existing ones fail. If a recession becomes extremely bad, it deepens into a **depression**. Then millions of people are out of work, many businesses fail, and the economy operates far below capacity.

At some point, the downward direction of the economy levels off in a **trough**. A trough is the lowest point in the business cycle. It occurs when real GDP stops going down, levels off, and slowly begins to increase. The increase in total economic activity that follows is called an **expansion** or **recovery**. Consumer spending picks up, signaling factories to hire workers and increase production to meet demand. New businesses begin to open. The recovery continues until the economy hits another peak, and a new cycle begins.

Ups and Downs of Business

In the real world, as you can see from Figure 13.12 on page 362, the business cycles are not as regular as the model shows. The peaks and troughs are clear, however,



SECTION 4 **RESOURCE MANAGER Reproducible Masters Multimedia** Exproducible Lesson Plan 13-4 Daily Focus Transparency 56 Vocabulary PuzzleMaker Reading Essentials and Study Guide 13–4

- Guided Reading Activity 13–4 Section Quiz 13–4
- Daily Focus Activity 56
- Daily Lecture Notes 13–4

- Interactive Tutor Self-Assessment Software
- ExamView[®] Pro Testmaker
- MindJogger Videoguiz
- Presentation Plus!

Limited English Proficiency Students who speak English as a second language may have trouble grasping the terminology and concepts of business fluctuations. Help them find resources, such as photo essays and illustrated histories, that show scenes of each stage of the business cycle. Such images can help students to understand what happens to the economy—and businesses and individuals—in a typical business cycle.



Figure 1 Refer to Inclusion for the Social Studies Classroom Strategies and Activities for students with different learning styles.

recession: part of the business cvcle in which the nation's output (real GDP) does not grow for at least six months

depression: major slowdown of economic activity

trough: lowest part of the business cvcle in which the downward spiral of the economy levels off

expansion/recovery: part of the business cycle in which economic activity slowly increases

Meeting Special Needs

CHAPTER 13 SECTION 4. Pages 360-363

2 Teach **Guided Practice**

L2 Applying Ideas List the following on the board: employment, income, spending, GDP. Call on volunteers to identify what happens to each of these during recession, trough, and peak phases of the business cycle.

Daily Lecture Notes 13–4

DAILY LECTURE NOTES Lesson 13-4

L ECTURE LAUNCHER

PAGES 360-361 I. Model of the Busines

- A. Begins with growth that lea R Real GDP levels off and begins to decline, while busi

Discussion Ouestic w can the model of the

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of the economy begins to happen. If a contraction lasts long enough, the economy begins to happen.	-a period of prosperity. When real GDP levels off, a decline or of the economy begins to happen. If a contraction lasts long enough, the econo	of the economy begins to happen. If a contraction lasts long eno	ovel of total output measured by real GD or IP levels off, a decline or contraction lasts long enough, the econ	an economy are known as 1 These ups and downs can be
		of the economy begins to happen. If a contraction lasts long eno n fall into a 6, where the real GDP does not grow for at least six	or fotal output measured by real GD or Plevels off, a decline or contraction lasts long enough, the econ es not grow for at least six months. If a i	an economy are known as 1 These ups and downs can be

Visual Instruction **FIGURE 13.11**

Answer: It is idealized or theoretical.

SECTION 4. Pages 360-363

Independent Practice

L2 Research Reports Encourage students to conduct research into a major economic depression in the United States. Have them note what caused the depression, how the economy recovered, and what economic changes-if any-came about because of the depression.

Global Economy

International Trade and the Great Depression

In the years after World War I. the United States followed a protectionist trade policy. Because foreign countries found it difficult to sell their products in the U.S., they could not make enough money to buy American exports. The effect on the American economy was made worse by the fact that many foreign countries had borrowed heavily from American banks after World War I. Falling export earnings led many of these countries to default on their loans. and this caused havoc in the American banking system.

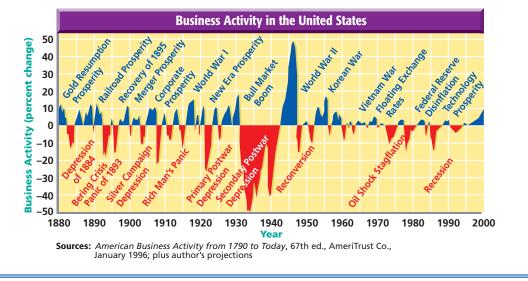
3 Assess **Meeting Lesson Objectives**

Assign Section 4 Assessment as homework or an in-class activity. Use Interactive Tutor Self-

Assessment Software to review Section 4.



Business Activity American business activity declined about 50 percent during the Great Depression, yet bounced back to new highs after World War II.



The largest drop that eventually resulted in a depression followed the stock market crash in October 1929. The preceding years had been a time of widespread prosperity, as shown in Part A of Figure 13.13. By September 1929, heavy speculation had driven stock prices to an all-time peak. Then stock prices started to fall in early October and continued to fall. Suddenly, on October 29, there was a stampede to unload stocks. In one day the total value of all stocks fell by \$14 billion.

Not long after the stock market crash, the United States fell into a serious recession. Factories shut down, laying off millions of workers. Businesses and banks failed by the thousands. Real GDP fell sharply over the next few years, pushing the nation into the depths of the Great Depression. See Part B of Figure 13.13. A gradual upward rise climaxed in the boom period after World War II, as shown in *Part C* of Figure 13.13.

Until the 1980s, small ups and downs occurred. The 1980s started off with a small recession that developed into the most serious economic downturn by some measurements since World War II. This downturn ended in 1982 and was followed by relative prosperity, except for a severe stock market crash in October 1987. A recovery in the mid-1990s developed into one of the most prolonged and robust periods of economic growth in United States history, lasting into the 2000s.

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Critical Thinking Activity

Making Predictions Remind students that during a recession people may lose their jobs. Newly unemployed people must conserve their resources-this means that they spend much less than when they were employed. When spending does not take place, a chain reaction is set off that affects the whole economy. Ask students to write a short paragraph describing the chain reaction that is set off when a large factory is closed, throwing hundreds of people out of work.



Prosperity, Depression, and Boom

Prosperity Before the Crash The 1920s had been a decade in which Americans began buying increasing numbers of radios, stoves, and automobiles. During these years, prices remained stable, and the standard of living rose about 3 percent per year.



Depression Conditions The Great Depression of the 1930s forced millions of Americans out of work. Used to the prosperity of the 1920s, Americans during the bust era of the Depression often relied on handouts.

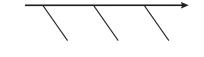
4

Understanding Key Terms

1. Define business fluctuations, business cycle. peak or boom, contraction, recession, depression, trough, expansion or recovery.

Reviewing Objectives

- 2. What are the phases of a typical business cycle?
- 3. Graphic Organizer Create a time line like the one below to describe the three most severe downturns in the United States economy since the 1920s.



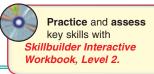
Assessment Answers

- 1. All definitions can be found in the Glossary.
- 2. peak or boom, a period of prosperity; contraction or recession, a period of slowdown or stagnation; trough, the lowest point in the business cycle; expansion or recovery, a period of steady growth toward another peak
- 3. Time lines should include the Great Depression, the serious economic downturn in the early 1980s, and the stock market crash in 1987.



War Boom

The United States economy grew rapidly during World War II. There were 17 million new jobs created, and farmers shared in the prosperity as crop prices doubled between 1940 and 1945.



Assessment

Applying Economic Concepts

4. Business Fluctuations Write three headlines that might have appeared in a newspaper during the years of the Great Depression. Then write three headlines that might have appeared during the expansion of the 1990s. Explain why vou chose to write those particular headlines for those time periods.

Critical Thinking Activity

5. Understanding Cause and Effect What actions and reactions throughout the economy may cause a recession to deepen into a depression?

Measuring the Economy's Performance 363

- 4. Headlines will vary. Call on volunteers to read their headlines to the class. After each headline is read, ask students to suggest ideas for an accompanying news story.
- 5. Students may suggest such actions and reactions as consumers cutting their spending, businesses cutting back on production, and
- businesses laying off large numbers of workers.

CHAPTER 13

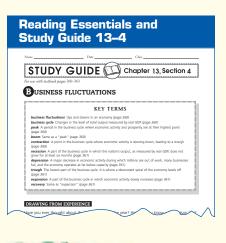
SECTION 4. Pages 360-363

Section Quiz 13-4

QUIZ	Chapter 13, Sectio	n 4
BUSINESS FLUCTUAT	IONS	CORE
Natching: Place a letter from Column B in th	blank in Column A. (10 points each)	
A	В	
1. business cycle	 part of the business cycle in which eco slowly increases 	iomic activity
2. peak	 major slowdown of economic activity 	
3. recession	c. period of prosperity in which economic	activity is at
 depression 	its highest point	
5. expansion	 irregular changes in the level of total or measured by real GDP 	itput
5. expansion	 part of the business cycle in which the output does not grow for at least six m 	
Multiple Choice: In the blank at the left, wr.		
6. An economic boom is		
a. a period of prosperity.	b. the same thing as a trough.	
 a sudden drop in stock prices. 	d. a downward trend in the economy	
 When GDP levels off and begins to de 	cline, the economy is entering	
 a peak part of the business cycle. 	b. an economic boom.	

Reteach

Have students write a paragraph describing each of the stages of the business cycle.



Inse

Lead students in a discussion of what might happen to a small business during a typical business cycle.

CHAPTER 13 SECTION 5. Pages 364-367

1 Focus **Overview**

Section 5 discusses the possible causes of business fluctuations and describes the economic indicators used to predict business fluctuations.

BELLRINGER Motivational Activity

- Project Daily Focus **Transparency 57** and have students answer the questions.
- This activity is also available as a blackline master.

Daily Focus Transparency 57

FOCUS ACTIVITIES 📶

Reader's Guide

Answers to the **Reading Objectives** questions are on page 367.

Preteaching Vocabulary

Have students write a few sentences explaining the differences among leading, coincidental, and lagging indicators.

Vocabulary PuzzleMaker



Causes and Indicators of Business Fluctuations

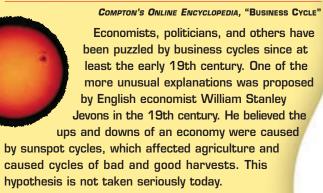
Reader's Guide

- **Terms to Know**
- innovations
- · economic indicators · leading indicators
- coincident indicators
- lagging indicators

Reading Objectives

- 1. What are some of the potential causes of business fluctuations?
- 2. What are the three broad categories of economic indicators?

COVER STORY



¬or as long as booms and recessions have existed, economists have tried to explain why business fluctuations occur. If they could understand the causes, they reason, then the government could take actions to smooth out business fluctuations. No single theory, however, seems to explain past cycles or to serve as an adequate measure to predict future ones. The difficulty arises because at any given time, several factors are working together to create business fluctuations.

Causes of Business Fluctuations

For many years economists believed that business fluctuations occurred in regular cycles. Later, economists believed that business

fluctuations were related to changes in the rate of saving and investing. Today economists tend to link business fluctuations to four main forces: business investment, government activity, external factors, and psychological factors.

Business Investment Some economists

believe that business decisions are the key to business fluctuations. Suppose a firm believes that prospects for future sales are good. Probably it will increase its capital investment: buy new machines, build new factories, expand old ones, and so on. This expansion will create new jobs and more income for consumer spending.

Innovations-inventions and new production techniques-can have a similar effect on the economy. When one firm begins to use an innovation, others must imitate the product or production method in order to become competitive again.

When businesses anticipate a downturn in the economy, they cut back on their capital investment and inventories. Producers, in turn, cut back on production to prevent a surplus. Enough inventory cutbacks could lead to a recession.

Government Activity A number of economists believe that the changing policies of the federal government are a major reason for business cycles. The government affects business activity in two ways: through its policies on taxing and spending, and through its control over the supply of money available in the economy. You'll learn more about these government actions in Chapters 15 and 16.

External Factors Factors outside a nation's economy also influence the business cycle. As you can see from Figure 13.14,



0

External Factors War, immigration, crop failures, and the changing availability of raw resources are some external factors that affect business cycles.

364 CHAPTER 13



Reading Comprehension Problems Students with reading comprehension problems may have difficulty understanding how certain statistical measures may lag behind others. Give students the example of the Acme Widget Company, producing 20,000 widgets a week. Sales of the widgets begin to slow but production continues at normal levels. After several weeks of declining sales, production is cut because Acme has a large inventory of widgets. Thus, sales figures are a more sensitive indicator of a coming downturn (or upturn) in the economy than production figures.

Refer to Inclusion for the Social Studies Classroom Strategies and Activities.

CAREERS Statistician

Job Description Qualifications

- Design surveys and experiments, collect data, and interpret the results
- Use mathematical models to develop economic forecasts

- in statistics
- Strong background in computer science recommended

Average Salary: \$61,030

Job Outlook: Favorable

—Occupational Outlook Handbook, 1998–9

innovations: inventions and new production techniques



Meeting Special Needs

CHAPTER 13

SECTION 5, Pages 364-367

2 Teach **Guided Practice**

L1 Analyzing Ideas Refer students to Figure 13.15 on page 366. Discuss the different categories of economic indicators to ensure that students understand them. Then ask students to pick an item from each category and, in a brief paragraph, explain how changes in each might indicate a rise or fall in business activity.

Daily Lecture Notes 13-5

DAILY LECTURE NOTES Lesson 13-5

RECTURE LAUNCHER

PAGES 364-366

Guided Reading Activity 13–5

GUIDED READING Activity 13-5

GAUSES AND INDICATORS OF BUSINESS FLUCTUATIONS

OUTLINING

SECTION 5. Pages 364-367

Independent Practice

L2 Oral Report Refer students to the discussion of external factors as a cause of business fluctuations Then have them use library resources and the Internet to investigate the impact of the OPEC oil embargo of 1973 on the American economy. Suggest that they present their findings in a brief oral report.

Visual Instruction **FIGURE 13.15**

Inform students that they can track the latest data on leading indicators by visiting The Dismal Scientist Web site at www.dismal.com/economy/ releases/dyn release.asp?r= usa leading Point out that they can use the

menu on the left of the page to link to information on coincident and lagging indicators. (Students might be intrigued by the name of the Web site. Inform them that nineteenth-century Scottish writer Thomas Carlyle referred to economics as the "dismal science.")

3 Assess Meeting Lesson Objectives

Assign Section 5 Assessment as homework or an in-class activity. 💾 Use Interactive Tutor Self-Assessment Software to review Section 5.

Major Economic FIGURE 13.15 Indicators

Leading Indicators

- **1.** Average weekly hours for production workers in manufacturing
- **2.** Weekly initial claims for unemployment insurance
- **3.** New orders for consumer goods
- 4. Speed with which companies make deliveries (the busier a company, the longer it will take to fill orders)
- 5. Number of contracts and orders for plants and equipment
- 6. Number of building permits issued for private housing units
- **7.** Stock prices

D

- **8.** Changes in money supply in circulation
- **9.** Changes in interest rates
- 10. Changes in consumer expectations

Coincident Indicators

- 1. Number of nonagricultural workers who are employed
- 2. Personal income minus transfer payments
- 3. Rate of industrial production
- 4. Sales of manufacturers, wholesalers, and retailers

Lagging Indicators

- 1. Average length of unemployment
- 2. Size of manufacturing and trade inventories
- 3. Labor cost per unit of output in manufacturing
- 4. Average interest rate charged by banks to their best business customers
- 5. Number of commercial and industrial loans to be repaid
- 6. Ratio of consumer installment debt to personal income
- 7. Change in consumer price index for services

Economic Indicators

Every day, business leaders are faced with the dilemma of trying to predict what will happen to the economy in the coming months and years. To aid decision makers, government and private economists study a number of economic indicators-listed in Figure 13.15–to learn about the current and possible future state

366 CHAPTER 13

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Cooperative Learning

Inform students that the National Bureau of Economic Research (NBER) in Cambridge, Massachusetts, officially tracks the dates of peaks and troughs in the business cycle. Then organize students into groups, and have groups investigate the work of the NBER. Inform groups that a great deal of information may be found on the NBER's Web site at www.nber.org Suggest that they pay special attention to the NBER's listing of peaks and troughs in the American economy. Have groups present their findings in a large illustrated and annotated time line. (P) BLOCK SCHEDULING

wars in particular have an important impact. This impact results from the increase in government spending during wartime.

Another external factorthe availability of raw materials such as oil-may also have an effect on the economy. New sources of raw materials may lower operating costs for certain industries. The sudden loss of raw materials and the resulting higher prices, however, can have the opposite effect.

Psychological Factors

Finally, it is possible that people's psychological reactions to events also cause business fluctuations. The prospects of peace in a troubled area or the discovery of a new oil field can lead to feelings of confidence and optimism. War or the overthrow of the government of an important trading partner can cause pessimism about the future. These psychological factors sometimes contribute to consumer confidence and increased spending or the lack of confidence and more saving.

of the economy. **Economic indicators** are statistics that measure variables in the economy, such as stock prices or the dollar amount of loans to be repaid. Each month, the U.S. Department of Commerce compiles statistics for 78 economic indicators covering all aspects of the state of the U.S. economy.

Leading Indicators Statistics that point to what will happen in the economy are called **leading indicators**. They seem to lead to a change in overall business activity–whether it is an upward or a downward trend. The Commerce Department keeps track of numerous leading indicators, but the ten listed in Figure 13.15 are the ones that most concern American economists.

Coincident Indicators Other economic indicators, which usually change at the same time as changes in overall business activity, also help economists. When these **coincident indicators** begin a downswing, they indicate that a contraction in the business cycle has begun. If they begin an upswing, they indicate that the economy is picking up and a recovery is underway.

Lagging Indicators A third set of indicators seems to lag behind changes in overall business activity. For example, it may be six months after the start of a downturn before businesses reduce their borrowing. The amount of change in these lagging indicators, whether up or down, gives economists clues as to the duration of the phases of the business cycle.

SECTION D Assessment

Understanding Key Terms

1. Define innovations, economic indicators, leading indicators, coincident indicators, lagging indicators.

Reviewing Objectives

2. Graphic Organizer Create a diagram similar to the one here to explain four of the potential causes of business fluctuations.



SECTION S Assessment Answers

- 1. All definitions can be found in the Glossary.
- 2. The four potential causes of business fluctuations are business investment, government activity, external factors, and psychological factors.
- 3. leading indicators, coincident indicators, lagging indicators
- 4. Many students will suggest the computer or the Internet, because of the impact e-commerce has had on the American economy.

economic indicators: statistics that measure variables in the economy

leading indicators: statistics that point to what will happen in the economy

coincident indicators: economic indicators that usually change at the same time as changes in overall business activity

lagging indicators: indicators that seem to lag behind changes in overall business activity

0 Practice and assess key skills with ilder Interactive Workbook, Level 2.

3. What are the three broad categories of economic indicators?

Applying Economic Concepts

4. Business Fluctuations What innovation do you think has had the most influence on expanding the American economy? Why?

Critical Thinking Activity

5. Making Predictions Identify two events that would cause you to predict a contraction of the economy.

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- 5. Answers will vary but may include: a fall in the average weekly hours for production workers, a rise in the weekly initial claims for unemployment insurance, a fall in new orders for con-
- sumer goods, a fall in the number of building permits issued for private housing units, a fall in stock prices, a rise in interest rates.

CHAPTER 13 SECTION 5. Pages 364-367

Section Quiz 13-5 **○ UIZ** ◆ Chapter 13, Section 5 GAUSES AND INDICATORS OF

b. cut back of

Reteach

_____ 2. economic indicate

3. leading indicators

Organize students into groups, and have groups develop visuals that illustrate the four causes of business fluctuations and the three categories of economic indicators. Have groups present and discuss their illustrations.

tudy (Guide 13–5
Name	Date Claw
STUDY	GUIDE D Chapter 13, Section 5
For use with textbook p	second
G AUSES	AND INDICATIONS OF BUSINESS
-	IATIONS
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	KEY TERMS
innovations New	production techniques and inventions (page 365)
	ors Statistics measuring variables in the economy (page 367)
	s Statistics showing what may happen in the economy (page 367) tors Economic indicators that change at the same time as change in overall business
activity (page 367)	
lagging indicators	s Indicators that seem to trail changes in overall business activity (page 367)
DRAWING FROM	MEXPERIENCE
	the seasons of a year. How do you know when the seasons are changing? Do
	s occur at the same time?
This section describe	es methods used by economists to predict changes in the business cycle
ORGANIZING Y	OUR THOUGHTS
	low to help you take notes as you read the summaries that follow. Think
lice the diagram he	

4 Close

To close this section, lead students in a discussion of why economic forecasting is so difficult.



Background

Inform students that prior to taking positions at the Federal Reserve Board and the President's Council of Economic Advisers, Janet Yellen was an economics professor at the University of California, Berkeley's Haas School of Business. Interestingly, her predecessor as Chair of the Council of Economic Advisers, Laura D'Andrea Tyson, also was a professor at the Haas School of Business.

Teach

Ask for volunteers to read aloud from the excerpt. Have students note Yellen's ideas on controlling unemployment and inflation. ASK: What does Yellen think is the purpose of economic policy? (to promote the well-being of American households) Have students discuss whether or not they agree with this view.



- Chair of President Clinton's Council of Economic Advisers. 1997-99
- Member of Federal Reserve Board of Governors, 1994–96
- Member of Congressional **Budget Office's** Panel of Economic **Advisers**
- Professor at the University of California at Berkeley; also held teaching positions at Harvard University and the London School of **Economics**

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Janet Yellen

People & Perspectives

ECONOMIST (1946–)

uring her career, Janet Yellen has investigated a wide variety of economic issues. She has paid special attention to wages, prices, and unemployment-issues that directly affect ordinary Americans. In her Senate confirmation hearings for the position of governor of the Federal Reserve Board, Yellen stated that she hoped to keep her eye on the people behind the numbers.

^{*CL*} *I think stabilization policy is important–to avoid huge swings in* unemployment. When you have the kind of recession we had in 1982 and 1983, for example, you can see the visible toll it takes on households. Perhaps because the causes and consequences of unemployment have been a focus of my research, I consider it easy to remain mindful of the people behind the numbers. In order to avoid high unemployment we must be careful not to push

the economy below the NAIRU [Non-Accelerating Inflation Rate of Unemployment-the minimum rate of unemployment consistent with stable inflation], allowing inflation to rise and to become embedded in expectations. Because when that happens, it takes a period of above normal unemployment to lower inflation. That's the painful lesson of the '70s. Even when it comes to inflation we have to remember that prices [in themselves] do not affect social welfare. Inflation matters because of its repercussions on a country's economic performance, which in turn affects the welfare of individuals. Why are we in this business? It seems to me that it's to promote the well-being of American households. That's what it's all about."

Checking for Understanding

- 1. According to Yellen, why is stabilization policy important?
- 2. Why is it dangerous to let inflation get out of hand?





Chapter Overview Visit the *Economics* Today and Tomorrow Web site at ett.glencoe.com and click on Chapter 13—Chapter Overviews to review chapter information.

SECTION 1 National Income Accounting

- The measurement of the national economy's performance is called **national income accounting**and includes five statistical measures.
- Gross domestic product (GDP) is the total dollar value of all final goods and services produced in the nation during a single year.
- When **depreciation** is subtracted from GDP, you get a statistic called net domestic product.
- Three additional measurements—national income, personal income, and disposable personal **income**—look at how much money is available to be spent by businesses and individuals.

SECTION 2 Correcting Statistics for Inflation

- When inflation occurs, the purchasing power of the dollar declines.
- Inflation skews GDP by making it appear that more output was produced, when in reality only the prices of goods and services have increased.
- To find real GDP, the government measures inflation's effect on current GDP.

Economic Forecasting Ask students to record for one week references in the media to unemployment, consumer spending, manufacturing trends, prices, economic recession, and economic expansion. With each entry, have students indicate whether the issue covered is positive or negative for the overall economy. At the end of the recording period, have students write a report summarizing the overall view of the health of the economy presented in the media. Have students conclude their reports by stating whether they are optimistic or pessimistic about the economy and why.

Answers to Checking for Understanding

- **1.** to avoid huge swings in unemployment
- **2.** Because when inflation gets out of hand, it takes a period of above-normal unemployment to bring it under control, and this adversely affects the welfare of American households.



 Three common measurements of inflation are the consumer price index, the producer price index, and the GDP price deflator.

SECTION 3 Aggregate Demand and Supply

- Aggregate demand and aggregate supply relate the total quantity of all goods and services in the entire economy to the price level.
- Equilibrium exists where the aggregate demand curve intersects the aggregate supply curve, thus resulting in neither inflation nor deflation.

SECTION 4 Business Fluctuations

- The economy experiences business fluctuations.
- A business cycle begins with a peak or boom. then **contracts** toward a **recession** (and perhaps even a **depression**). The downward spiral hits a trough, then increases again in an expansion or recovery.
- The Great Depression was the worst economic crisis in United States history.

SECTION 5 Causes and Indicators of **Business Fluctuations**

- · Economists link business fluctuations to four main forces: business investment, government activity, external factors, and psychological factors.
- To help business and government leaders in making economic decisions for the future, economists create and update economic indicators.

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Economics Journal

CHAPTER 13 Summa





Measuring the Economy's Performance



Chapter 20 Chapter ∠∪ Disc 1, Side 2

If you do not have access to a videodisc player, the Economics & You programs are also available in VHS.

Use the Chapter 13 Summary to preview, review, condense, or reteach the chapter.

Preview/Review

Vocabulary PuzzleMaker Software reinforces the key terms used in Chapter 13.

Interactive Tutor Self-Assessment Software allows students to review Chapter 13 content.

Condense

 \bigcap \bigcap Have students listen to the Chapter 13 Audio Program (also available in Spanish) in the TCR. Assign the Chapter 13 Audio Program Activity and give students the Chapter 13 Audio Program Test.

Reteach

Have students complete Reteaching Activity 13 in the TCR (Spanish Reteaching Activities are also available).

CHAPTER 13 **Assessment and Activities**



Have students visit the Economics Today and Tomorrow Web site at *ett.glencoe.com* to review Chapter 13 and take the Self-Check Quiz.

GLENCOE TECHNOLOGY

MindJogger Videoguiz

Use MindJogger to review Chapter 13 content.

Identifying Key Terms

- **1**. d
- **2**. a
- **3.** c
- **4.** f
- 5. b
- **6**. e

Recalling Facts and Ideas

- 1. consumer goods, producer goods
- **2.** wages and salaries, income of self-employed individuals, rental income, corporate profits, interest on savings and other investments
- 3. personal tax payments, including Social Security contributions
- **4.** consumer price index, producer price index
- **5.** Inflation is a prolonged rise in prices, while deflation is a prolonged fall in prices.
- **6.** by applying the GDP price deflator to remove the effects of inflation
- 7. The aggregate demand curve slopes downward because as prices fall, a larger quantity of real domestic output is

CHAPTER 13

Assessment and Activities



Self-Check Quiz Visit the Economics Today and Tomorrow Web site at ett.glencoe.com and click on Chapter 13—Self-Check Quizzes to prepare for the Chapter Test.

Identifying Key Terms

Write the letter of the definition in Column B below that correctly defines each term in Column A.

Column A

- 1. base year
- **2.** trough
- **3.** economic indicators
- 4. expansion
- 5. real GDP
- 6. business cycle

Column B

- a. point when economic activity is at its lowest
- **b.** figures for the nation's total production that have been corrected for inflation
- **c.** measurement of specific aspects of the economy such as stock prices **d**. used as a point of comparison for other
- years in a series of statistics e. periodic ups and downs in the nation's
- economic activity
- **f**. business recovery period, when economic activity increases

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demanded. The aggregate supply curve slopes upward because as prices rise, producers supply more, causing domestic output to rise.

- 8. equilibrium price level and the equilibrium quantity of real GDP demanded and supplied
- **9.** if consumers save less and spend more, or if better economic conditions are forecast
- **10.** peak, contraction or recession, trough, recovery or expansion

Recalling Facts and Ideas Section 1

- **1.** Net exports and government goods are two components of GDP. What are the other two components?
- 2. What five categories of income make up national income?
- 3. If you were given the statistic on disposable personal income, what other information would you need to derive personal income?

Section 2

- **4.** What are the most commonly used price indexes?
- **5.** What is the difference between inflation and deflation?
- 6. How would you determine real GDP if you knew only GDP?

Section 3

- 7. Why does the aggregate demand curve slope downward and the aggregate supply curve slope upward?
- 8. What is determined at the intersection of the aggregate supply and aggregate demand curves?
- 9. What would cause the AD curve to shift to the right?

Section 4

- **10**. What are the four main phases of a business cycle?
- **11.** When the economy enters a recession, what normally happens?
- **12.** When was the most serious downturn in economic activity in the United States?

11. Business activity decreases, industry cuts

back on production, consumers spend less,

workers are laid off, fewer new businesses

open, and some existing businesses fail.

13. Optimism can lead to increased consumer

tious, reducing consumer spending.

14. taxing and spending policies and control

spending and greater business productiv-

ity. Pessimism can make people more cau-

12. Great Depression of the 1930s

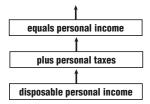
of the money supply

Section 5

- **13.** How might psychological factors affect the business cycle?
- **14.** What two aspects of government activity affect business cycles?

Thinking Critically

- 1. Making Generalizations How might knowledge of nationwide economic statistics help you?
- 2. Summarizing Information Create a diagram like the one below to summarize national income accounting. Start with the lowest statistic, disposable personal income, and work your way up to GDP–adding and subtracting the appropriate items.



Applying **Economic Concepts**

Business Cycles Try to analyze what you think occurs throughout the economy during a recession. Make a list of some of the things that business owners may do to react to a recession, such as reduce employees' overtime hours.

Cooperative **Learning Project**

To make comparisons between the prices of things in the past and those of today, you have to make the distinction between current prices (often called nominal values), and prices adjusted for inflation (real values). Working with a partner, use the following statistics and equation to find real 1998 GDP.

Thinking Critically

1. Answers may vary. Possible student response: Such knowledge can be useful in determining if it is a good time to change jobs, to make a major investment, or to take on extra debt.

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1998 nominal GDP =\$8.511.0 billion 1998 price deflator = 112.70nominal GDP \div implicit price deflator \times 100 = real GDP

Reviewing Skills

Taking Notes Research lagging indicators, coincident indicators, and leading indicators. Take notes on your research using the following guidelines:

- For each type of indicator, what are the various subgroups?
- How long has the indicator been reported in the United States?
- Can you find instances when the indicator was wildly inaccurate?

From your notes, write a paragraph describing how useful any of these indicators might be in accurately predicting changes in the nation's overall economic activity.

Technology Activity



Using the Internet Use the Internet to find the latest edition of the Statistical Abstract of the United States. Locate the tables in the "Prices" section that give price indexes for consumer goods for selected cities and metropolitan areas. Construct a line graph showing the rise in the index for "all items" over the last six years.

Analyzing the Global Economy

Use the Internet or a source in the library to find out the 10 countries with the highest real GDP. Then compare this list with the 10 countries with the highest real GDP per capita, found in the Global Economy feature on page 347.

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2. disposable personal income + personal taxes = personal income; personal income + corporate taxes, reinvested profits, employer Social Security contributions government and business transfer payments = national income; national income + indirect business taxes = net domestic product; net domestic product + depreciation = gross domestic product

CHAPTER 13 **Assessment and Activities**

Applying Economic Concepts

Answers may vary. Students' responses might include the following actions: freeze hiring, raises, and benefits; reduce inventory; cut prices; and, in extreme cases, close plants and sell off assets.

Cooperative Learning Project

\$7.551.9 billion

Reviewing Skills

Notes and note-taking styles will vary. Call on volunteers to share their notes and paragraphs with the rest of the class.

Technology Activity

Encourage students to display and discuss their line graphs.

Analyzing the **Global Economy**

Have students share their findings. Then discuss why the two lists are different.

Chapter Bonus **Test** Question

ASK: What point in the business cycle do the following statements describe?

- 1. Unemployment is on the rise. recession
- 2. Industrial output reaches new highs. peak
- 3. Consumer spending begins to increase and factories start to hire workers. recovery
- 4. After dipping markedly, real GDP levels off. trough

Economics Lab

1 Focus

Indexes are an invaluable tool for comparing monthly and yearly statistics. The consumer price index, for example, allows economists to track how prices change over time. In this lab, students are given the opportunity to construct their own price index.

2 Teach

This lab may be stretched over six weeks-one week for preparation, four weeks for pricing items, and one week for constructing the price index. Because such a long time period is involved, establish set times to review students' progress.

As students start the procedures in Step B, ensure that they have a large enough sample survey to get a realistic spread of food types. When students begin to categorize the foods, you might offer some examples of categories used by the Bureau of Labor Statistics (BLS), the agency that develops the CPIbreakfast cereal, coffee, milk, snack foods, chicken, frozen peas, and so on. In Step C, have students present their index in table form.

Economics Lab

Constructing a Market Basket

From the classroom of Rochelle Tuchman, Shulamith High School, Brooklyn, New York

n Chapter 13 you learned how the consumer price index compares prices for a market basket of about 90,000 goods and services in order to adjust GDP for inflation. In this lab, you'll construct your own market basket and price index.

STEPA Tools Needed

- ✓ notebook
- ✓ pencil
- ✓ calculator
- ✓ transportation to local supermarket

STEP B Procedures to Follow

- **1.** Survey students in your school to see what kinds of food their families eat the most.
- **2.** Identify five categories of food that are purchased most often (and that are available in a supermarket): frozen pizza, pasta, soda, and so on.
- **3.** Then identify three specific items in each category, including brand name and size (16 ounces, for example).
- 4. Also identify the locations of supermarkets in your community where the items can be purchased.
- 5. Now price your specific items on a perweek basis for one month. You must price the same product(s) in the same supermarket on the same day each week.
- **6.** After the first visit to the supermarket, add up the total amount of the 15 items in your market basket. This number will signify your base year.
- **7.** After each of the remaining three visits to the supermarket, add up the total amount of your market basket again, and compare the new totals to your base year.

Teacher's Notes

STEPC Creating an **Economic Model** Use your totals to construct a price

index. It should begin with a listing of your market basket contents and quantities. Week 1, your base year, will have a value of 100. Index numbers for Weeks 2, 3, and 4 will show the percentage that the market basket price has risen since the "base year." Remember, to calculate the percentage of change, subtract 100 (base year value) from the new figure: [Week 2 figure] -100 =percent change of market basket.



Answers to Lab Report Analysis

- **1.** Answers will vary.
- 2. Answers will vary. Students should express their answers as a percentage.
- **3.** Answers will vary. Ensure that students fully explain their answers.

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STEPD Lab Report Analysis Study the price index you created in Step C, then answer the questions below. **1.** What was the total amount of your market basket in your base year? **2.** By how much did your price index change from your base year (Week 1) to

3. Were you surprised by the results of your price index? Explain.

3 Assess

Have students answer the Lab Report Analysis questions.

4 Close

To conclude, you might have students discuss what trends in prices are shown in their indexes.

Did You Know

The thousands of items used for the consumer price index are organized into about 200 categories. These categories, in turn, are arranged in 8 major groups. The major groups are: food and beverages; housing; apparel; transportation; medical care; recreation; education and communication; and other goods and services.