

**★ Guided Reading Activity 19-1**

**DIRECTIONS: Outlining** Locate the heading in your textbook. Then use the information under the heading to help you write each answer. Use another sheet of paper if necessary.

**I. Railroad Expansion**

**A. Introduction**

- 1. How many railway lines crossed the country by the 1890s? \_\_\_\_\_
- 2. By 1900 how many miles of track had been added to the existing 30,000 miles?  
\_\_\_\_\_

**B. Railroad Barons—How did Vanderbilt become a railroad baron?**  
\_\_\_\_\_

**II. Railroads Stimulate the Economy**

**A. Introduction—What happened around 1880 that stimulated America’s steel industry?** \_\_\_\_\_

**B. Improving the Railroads—What allowed faster shipment of goods at a lower cost?** \_\_\_\_\_

**C. Railroad Technology—What four technological developments were particularly important to railway transportation?**  
\_\_\_\_\_

**D. Competing for Customers**

- 1. What were secret discounts for big customers on large railroads called?  
\_\_\_\_\_
- 2. How did a railroad eliminate competition in its region?  
\_\_\_\_\_

**E. Railroads Change America**

- 1. Into what area did American industry expand because of the growing railroad network? \_\_\_\_\_
- 2. After farmers settled the Great Plains, where was the manufacturing center for agricultural equipment? \_\_\_\_\_

**F. Time Zones—How did Americans change the way they thought about time and distance?** \_\_\_\_\_  
\_\_\_\_\_

**SECTION 19-1**

**★ Guided Reading Activity 19-2**

**DIRECTIONS: Filling in the Blanks** Use your textbook to fill in the blanks using the words in the box. Use another sheet of paper if necessary.

<b>Western Union Telegraph Company</b>	<b>Alexander Graham Bell</b>	<b>Henry Ford</b>
<b>Samuel F.B. Morse</b>	<b>mass production</b>	<b>power plant</b>
<b>Granville Woods</b>	<b>telephone</b>	<b>typewriter</b>
<b>Lewis Howard Latimer</b>	<b>Atlantic Ocean</b>	<b>patents</b>
<b>Thomas Edison</b>	<b>assembly line</b>	<b>Europe</b>
<b>Cyrus Field</b>		

**Communication Changes**

(1) \_\_\_\_\_ had introduced the telegraph in 1844. By 1860 the United States had thousands of miles of telegraph lines, mostly controlled by the (2) \_\_\_\_\_. In 1866 (3) \_\_\_\_\_ managed to lay a telegraph cable across the (4) \_\_\_\_\_, making it possible for messages to travel from (5) \_\_\_\_\_ to the United States in seconds. By 1876 (6) \_\_\_\_\_ had developed a device that transmitted speech—the (7) \_\_\_\_\_. By the 1890s he had sold nearly 500,000 of these devices.

**The Genius of Invention**

Between 1860 and 1890, the government granted more than 40,000 (8) \_\_\_\_\_ for new inventions. Among inventions that helped businesses operate more efficiently were Christopher Sholes’s (9) \_\_\_\_\_ (1868) and William Burroughs’s adding machine (1888). (10) \_\_\_\_\_ developed the first practical lightbulb in 1879. In 1882 he built the first central electric (11) \_\_\_\_\_ in New York City. A number of African Americans contributed to the era of invention. (12) \_\_\_\_\_, an engineer, developed an improved lightbulb filament. (13) \_\_\_\_\_ developed the automatic circuit breaker, and Elijah McCoy invented a mechanism for oiling machinery.

**A Changing Society**

In 1903 (14) \_\_\_\_\_ established an automaking company, and in 1908 he introduced the Model T. He also pioneered a new, less expensive way to manufacture cars—the (15) \_\_\_\_\_. (16) \_\_\_\_\_ of goods decreased manufacturing costs.



**Guided Reading Activity 19-3**

**DIRECTIONS: Recalling the Facts** Use the information in your textbook to answer the questions. Use another sheet of paper if necessary.

1. Where did Edwin L. Drake discover oil in 1859? \_\_\_\_\_
2. How did Drake find the oil? \_\_\_\_\_
3. What was one way a company could raise capital? \_\_\_\_\_
4. Where could people buy and sell stocks in companies? \_\_\_\_\_  
\_\_\_\_\_
5. What company did John D. Rockefeller organize in 1870? \_\_\_\_\_
6. How did Rockefeller use horizontal integration to build his empire?  
\_\_\_\_\_
7. Why did Rockefeller try to gain ownership of stock in other oil companies?  
\_\_\_\_\_
8. What two methods of making steel changed the steel industry? \_\_\_\_\_  
\_\_\_\_\_
9. Where was the steel capital of the United States? \_\_\_\_\_
10. How did Andrew Carnegie use vertical integration to dominate the steel industry?  
\_\_\_\_\_
11. Who bought Carnegie's steel company in 1901? How much did he pay?  
\_\_\_\_\_
12. What was the world's first billion-dollar corporation? \_\_\_\_\_
13. How did philanthropists use money to benefit the community? \_\_\_\_\_  
\_\_\_\_\_
14. Why did some people believe a lack of competition would hurt consumers?  
\_\_\_\_\_
15. When did Congress pass the Sherman Antitrust Act? \_\_\_\_\_
16. What did the Sherman Antitrust Act seek to do? \_\_\_\_\_

**SECTION 19-3**

★ **Guided Reading Activity 19-4**

**DIRECTIONS: Recalling the Facts** Use the information in your textbook to answer the questions. Use another sheet of paper if necessary.

1. Describe the kinds of dangers common to these workers of the late 1800s:
  - a) steel workers \_\_\_\_\_
  - b) coal miners \_\_\_\_\_
  - c) textile workers \_\_\_\_\_
2. Where did garment workers toil? Describe their working conditions. \_\_\_\_\_  
\_\_\_\_\_
3. By 1900 how many women worked in industry? \_\_\_\_\_
4. How did women's salaries differ from men's salaries? \_\_\_\_\_
5. How did child-labor laws try to improve working conditions for child factory workers? \_\_\_\_\_
6. How were the Knights of Labor different from most other unions? \_\_\_\_\_  
\_\_\_\_\_
7. What was the AFL, and whom did it represent? \_\_\_\_\_
8. What is collective bargaining? \_\_\_\_\_
9. What union took action after the 1911 fire at the Triangle Shirtwaist Company factory? \_\_\_\_\_
10. How did unions respond when companies fired workers and lowered wages? \_\_\_\_\_  
\_\_\_\_\_
11. What did companies do to replace strikers during the 1877 railroad strike? \_\_\_\_\_  
\_\_\_\_\_
12. What caused the Haymarket Riot of 1886? \_\_\_\_\_
13. How did steel plant managers respond to the Homestead Strike of 1892? \_\_\_\_\_  
\_\_\_\_\_
14. How did George Pullman and railroad owners stop the union from "obstructing the railways and holding up the mails"? \_\_\_\_\_