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The Industrial Revolution: 1750 to 1850

Directions: Fill in the outline below. Filling in the blanks will help you as you read and study Chapter 19.

I.			n 1: The Industrial Revo	lution Begins in I	England (pp. 482–484)	
	Α.		dustrial Revolution				
			Began in England in				
			Workers began to work				
			Means an important ch	ange in the way _			***************************************
	В.		gland				
			Had the				
			Had plenty of				
		3.	Had the	, or mone	ey, to start	building facto	ories and machines
	C.	Sp	read of the Industrial Rev	olution			
		1.		and		were inc	dustrialized by the 1870s
II.	Sec	tio	a 2: The Growth of the Fi	irst Modern Indu	stries (p _l	o. 485–489)	
	A.	Inv	entions That Helped the	Textile Industry			
		1.	John Kay's		help	ed workers we	eave twice as much cloth
		2.	The	had	eight		instead of one
		3.	Samuel Crompton's		····		produced longer thread
	В.	Pro	blems For Cotton Grower	:s			
		1.	Getting cotton from	to		was hard	work
		2.	Removing cotton	by hand	d took a lo	ot of	
		3.	Eli Whitney's		solved	these problem	ıs
	C.		ss Production				
		1.	Developed by		at his g	un factory	
		2.	Cuts the	workers need, s	o they can	produce	·
	D.	Iro	n and Steel				
		1.	Darby made	_with coke, and _		became a valu	uable natural resource
		2.	Bessemer got rid of the		in iron, ar	nd created	

Steel became important because it was _____ than iron

Student Study Guide

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The Industrial Revolution: 1750 to 1850, continued

		n 3: Transportation and Communication Improve (pp. 490–493)	page 2				
Α.	Ro						
		Became muddy when					
		built roads in two layers					
	3.	built roads of crushed stone					
В.		nals					
		Allowed manufacturers to ship like coal					
_		Were expensive to build, and needed	 .				
C.		eam Engine					
		1. Was invented in to pump water from coal mines					
		made it more efficient by making it turn					
	3.	manufacturers could now build their factories any	where				
D.		ilroads					
	1.	Developed after Stephenson built a					
		Helped factory owners move and	- Constitution of the Cons				
Sec	2.						
	2. ction	Helped factory owners move and					
	2. ction	Helped factory owners move and					
	2. ction	Helped factory owners move and	spreading				
	2. ction Inc 1.	Helped factory owners move and 14: Industry Brings Change and Problems (pp. 494–498) Hustry Spreads passed laws to keep from	spreading				
Α.	2. ction Inc 1.	Helped factory owners move and	spreading				
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А.	2. Inc. 1. 2. Cit 1. 2. Face	Helped factory owners move and	spreading brough				
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A. В.	2. Cit 1. 2. Fac 1. 2.	Helped factory owners moveand	spreading brougl				
A. В.	2. Cit 1. 2. Fac 1. 2.	Helped factory owners move and	spreading brough				
A. В.	2. ction Inc. 1. 2. Cit 1. 2. Fac. 1. 2. New	Helped factory owners move and	spreading brough				

Activity

The Growth of Industry

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Directions: Write the answers to these questions using complete sentences. 1) What inventions helped the textile industry? 2) How did the factory system change the way people worked? Give three specific ways. 3) How did Eli Whitney have workers manufacture guns? What is this process called? 4) Why did coal become a valuable natural resource in the 1700s? 5) Henry Bessemer found a way to make steel in 1856. Why was this discovery important?

Transportation and Communication Puzzle

A. Directions: Write the correct word from the Word Bank to complete

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	each sentence.	
1)	A force produced by pressing on something is	
2)	İn 1773, developed a steam engine that turned wheels.	
3)	To drain water, built roads in two layers.	
4)	is the movement of people and things from one place to	another.
5)	After 1773, manufacturers could power textile with steam	m engines.
6)	A is a tank that heats water.	
7)	James Watt wanted to make the steam engine more	
8)	Raw are used to make things.	Word Bank
9)	A is a self-propelled vehicle that runs on rails.	boiler
10) B. E	The problem with using to transport goods is that they need water. *Directions: Use the words from the sentences to fill in the words in this puzzle. The letters in the box reading down name the	canals efficient locomotive machines materials
	"founder of the railways."	pressure Telford
1)		transportation
2)		Watt
3) 4)		
5)		
6)		
7)		
8)		
9) 10)		
	- Instrumental Control of the Contro	

Activity

Change and Problems Multiple Choice

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Direction	the letter of each		ine.	viite
1)	In the 1800s, Briti	ish factories mad	le of the world's	cotton cloth.
	a. all	b. half	c. more than half	d. less than half
2)	brought tl	he plans for a spi	nning machine to the U	Jnited States.
	a. Moses Brown	b. Samuel Slat	er c. Francis Lowell	d. Gottlieb Daimler
3)	Oil and w	ere two new sou	rces of power in the late	1800s.
	a. coal	b. steam	c. electricity	d. waterwheels
4)	A is an org	ganized group of	workers who try to im	prove things.
	a. labor union	b. factory unic	on c. labor group	d. workers union
5)	The internal comb	oustion engine n	nade the possibl	e.
	a. telegraph	b. telephone	c. spinning machine	d. automobile
6)	Industrialization of	caused the popul	ation of cities to	_•
	a. decrease	b. increase	c. move	d. stay the same
7)	Factory workers w	anted safer facto	ories, more pay, and	•
	a. longer hours	b. shorter hour	rs c. lunch breaks	d. more work
8)	In 1876, Alexande	r Graham Bell in	evented the	
	a. telegraph	b. telephone	c. light bulb d. inte	ernal combustion engine
9)	Great Britain did r	not want other co	ountries to learn about	•
	a. trade	b. child labor	c. industrialization	d. farming
10)	built a fact	ory town in Mas	sachusetts.	
	a. Samuel F. B. Me	orse b. Orville V	Wright c. Samuel Slate	r d. Francis Lowell

The Industrial Revolution Begins

Directions: Complete the paragraphs below. Choose the correct term from the Word Bank. Some terms may be used more than once.

	Word Bank	
capital	government	population
coal	Industrial Revolution	potato
developing	industrialized	power
economists	iron ore	rivers
factories	machines	United States
Germany	natural resources	

The 1)		began in England	when workers began to
work in 2)	and use	3) to produce	goods. England was
able to industrialize b	oecause it had 4)	, enough work	cers, and
5)	to build factories	s and machines.	
The three 6) _		England had were 7) _	
		England had enough	
		had increased by 50 percent	
11)	Also, farmers v	were forced off the land by the 12	2)
Factory owners used their factories.	13)	, or money used to make m	nore money, to start
The changes the	hat occurred in E	England began to spread to other	countries.
14)	_ was industrializ	ed by 1860, and the 15)	soon
followed. 16)	, or	people who study money, call co	ountries like these
17)	nations. They	call other countries 18)	nations.
Industrialized nations	s need 19)	, a 20)	source, and
workers.			

First Modern Industries True or False

Workboo

Directions	s: Read each sentence. Write T if the statement is true or F if it is false.
1)	The textile industry produced cloth made of cotton, silk, or wool.
2)	The inventions of John Kay, James Hargreaves, and Richard Arkwright helped the textile industry.
3)	Samuel Crompton invented the "spinning jenny."
4)	A manufacturer hires people to work with machines to make a product to sell.
5)	Cotton farmers in the United States exported most of their cotton to textile factories in Germany.
6)	Mass production means to put the parts of something together.
7)	Eli Whitney became wealthy as a cotton manufacturer.
8)	Steel was important because it was stronger than iron and did not easily break.
9)	Abraham Darby found a way to get rid of impurities in iron.
10)	Things that are identical are exactly alike.
11)	Coke is a thread of cotton, silk, wool, or other material.
12)	The factory system changed the way people worked.
13)	Removing seeds from cotton became easier because of the cotton gin.
14)	The Ruhr Valley in Germany became an important steel center.
15)	Mass production greatly increases the time workers need to make a product.

Do You Remember?

Workbook 77

Directions: Write the answers to these questions using complete sentences.

1) Why does industry need good transportation? 2) How did canals help manufactures? What were some problems with canals? 3) How did James Watt's steam engine help textile manufacturers? 4) Why do historians call George Stephenson the "founder of the railways"? 5) What became the most important form of transportation in the nineteenth century? Why?

What Am I?

Workbook

Directions: After each sentence, write the correct term from the Word Bank that the sentence describes.

	Word Bank	
cotton cloth	industrialization	telegraph
Daimler	labor union	telephone
electricity	Lowell	
farmers	spinning machine	

- 1) I am what most people worked as before the 1750s.
- 2) British textile factories made more than half of the world's supply of me.
- **3)** Samuel Slater brought plans for building me to the United States.
- **4)** Great Britain passed laws to stop the spread of me.
- 5) I am the factory town Francis Lowell built in Massachusetts.
- 6) Factory owners did not allow workers to form me.
- 7) I was invented by Samuel F. B. Morse.
- 8) Alexander Graham Bell invented me.
- 9) I invented the internal combustion engine.
- 10) I was an important new source of power in the late 1800s.