

## Chapter 17 Resources Revolution and Enlightenment, 1550–1800

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DIRECTIONS: Match each term with its definition by writing the correct letter on the blank.

- A. geocentric
- F. scientific method
- K. mulatto

- **B.** philosophe
- G. natural law
- L. heliocentric

- **C.** separation of powers
- H. rationalism
- M. social contract

- **D.** federal system
- I. deism

N. salon

- E. ellipses
- J. enlightened absolutism
- 1. religious philosophy based on reason and natural law
- 2. reliance on reason as the best guide for belief and action
- 3. oval paths in which planets move around the Sun
- 4. system by which rulers tried to govern by Enlightenment principles while maintaining their royal powers
- \_\_\_\_\_\_ 5. universal moral law that Enlightenment thinkers believed could be understood through reason
- 6. social gathering in which ideas of the Enlightenment were discussed
- \_\_\_\_\_\_ 7. relating to a reference system based at the center of the Sun
  - \_\_\_ \$. intellectual thinker in the Age of Enlightenment
  - \_\_\_\_ 9. power shared between the national government and the state governments
- \_\_\_\_\_10. offspring of Africans and Europeans
- \_\_\_\_\_\_11. entire society agrees to be governed by its general will
- 12. executive legislative and judicial branches of the government limit and control each other in a system of checks and balances
  - \_\_\_\_\_13. places Earth at the center of the universe
- \_\_\_\_\_14. means of attaining knowledge by repeated observation and experimentation

Name	Date	Class	
	story Activity 17		

#### The Age of Revolution

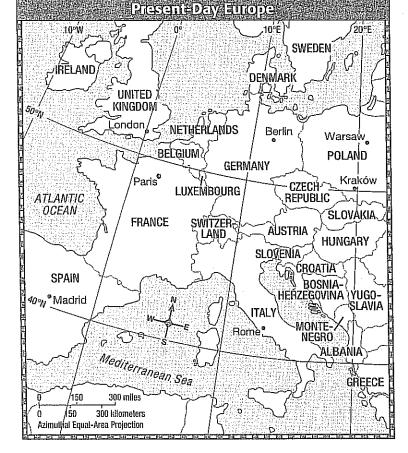
Between 1500 and 1830, a revolution in scientific thinking spread across Europe. This Scientific Revolution affected politics, religion, philosophy, and the arts.

**DIRECTIONS:** The map below of present-day Europe shows places where significant developments in the Scientific Revolution and the Age of Enlightenment occurred. Use the map to answer the questions and complete the activity that follow.

 Identify three nations shown on the map that did not exist in the Age of Enlightenment.

2. Identify three or more cities on the map that existed when the Scientific Revolution began, around 1500.

•	·	



3. On the map, mark and label the city or country where the

following developments in the Scientific Revolution and the Age of Enlightenment occurred:

Copernicus begins his scientific career;

Galileo stands trial for his heretical ideas;

Charles II establishes the Royal Society;

Madame de Pompadour draws together enlightened thinkers in salons.

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#### Historical Significance Activity 17



#### The First Amendment

The basic freedoms enjoyed by Americans for more than 200 years—freedom of speech, freedom of the press, freedom of religion, and freedom of assembly—come from the Bill of Rights, which became part of the Constitution in 1791. These freedoms are such a basic part of American life that sometimes we take them for granted. Yet

billions of people in countries around the world do not enjoy the freedoms that Americans have considered sacred for 200 years.

The Bill of Rights contains ten amendments to the Constitution. The First Amendment reads as follows:

ongress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech or of the press; or the right of the people peaceably to assemble, and to petition the government for a redress of grievances.

<b>DIRECTIONS:</b> In the s meaning of the First A	pace below, describe the story from your life that best expresses the mendment to you.
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•	
-	
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DIRECTIONS: During the Scientific Revolution, ideas changed the world. Look at the events listed on the time line. Write each event in the box next to the field of study it affected. Then describe the significance of the event. Events may be placed in more than one box.

1687 Newton publishes his book <i>Principia</i> .  1690 Locke publishes his <i>Tw. Treatises of Government</i> .	the Arts seeks to balance emotion and reason.
	Diderot begins publishing the Encyclopedia.
7600	17/16 The American Revolution begins.
	790-1850 Romantic movement occurs.
Maria Theresa rules Austria.	Frederick II rules Prussia.

Significance of His	offed Events	
Field	Event	Significance
Science/Mathematics		
1.77	700400	
Government/Politics		
Philosophy/Religion	100	
The Arts		

#### Linking Past and Present Activity 17

#### Leeuwenhoek and Modern Biology

**THEN** Because many things are impossible to see with the naked eye, people who lived before and during the Middle Ages had mistaken concepts about material reality. They could not see the eggs that fleas and lice laid. Therefore, they believed that such vermin sprang from nonliving matter. Since the germs that cause diseases are even tinier than insect eggs, they supposed that a mysterious vapor brought plague.

Antonie van Leeuwenhoek (1632–1723) did not change these mistaken ideas during his lifetime. However, he did make discoveries that eventually helped to correct them. Leeuwenhoek was a fabric merchant who experimented with the microscope, which had been invented around 1595. Two scientists, Robert Hooke of England and Jan Swammerdam of the Netherlands, had made microscopes and used them before Leeuwenhoek. Hooke's book, Micrographia, turned Leeuwenhoek's attention to the microscopic world.

Leeuwenhoek developed a lens that magnified objects to appear 200 times larger. He used the lens on ordinary things, such as pond water and the tartar from his own teeth. In these, he discovered fabulous creatures that he called animalcules. He was the first to observe such things as bacteria, sperm cells, blood cells, rotifers, and nematodes. Leeuwenhoek's work led to the understanding of the composition of blood and the development of ways to control diseases caused by microbes.

#### CRITICAL THINKING

**Directions:** Answer the following questions on a separate sheet of paper.

- 1. Drawing conclusions: Why do you think Leeuwenhoek was interested in the microscope?
- 2. Making inferences: Why might it be helpful for people to learn that they have a gene that makes them susceptible to a disease?

**NOW** Biology is the science most deeply indebted to Leeuwenhoek's discoveries. Its principle tool remains the microscope. This instrument has, of course, advanced far beyond the simple device used in the sixteenth century. Stereoscopic microscopes allow scientists to dissect extremely small specimens by showing these specimens in three dimensions. Electron microscopes magnify images of objects over one million times. With these and other new instruments and techniques, modern biologists are probing even more deeply into the mysteries of life. Some of the more recent—and most exciting—medical discoveries follow.

Some of biology's most exciting advances have been in genetics, or the study of genes. Genes determine the essence and appearance of living organisms. Scientists have learned to manipulate them to modify living organisms. For example, they can change the genetic structures of plants to make them more resist-

ant to disease.

The manipulation of genes has led to a process called cloning. In 1997 Ian Wilmut, a Scottish scientist, cloned a sheep; that is, he reproduced a sheep from one cell of the animal. Biologists hope that cloning will lead to creating animals whose organs can be used to replace damaged human organs.

In 1999 members of the Human Genome Project decoded virtually all the genetic information in a human cell. This knowledge will enable doctors and scientists to help people in a number of ways. For example, a doctor could identify whether a patient has a gene that makes that person susceptible to a partic-

ular disease.

3. Extending prior knowledge: How do you think Leeuwenhoek's work led to the control of disease? Do research in the library and on the Internet to learn about scientists who fought microbes. Write a brief report of your findings.

### People in World History Activity 17

Profile 1

#### Nicholas Copernicus (1473-1543)

In the early 1500s, most people believed Ptolemy's theory of the universe. More than 1,000 years earlier, the Greek astronomer had concluded that the earth was the center of the universe. According to Ptolemy, the earth was stationary, and all the other planets moved around it in complicated paths, or orbits. Copernicus, however, dared to disagree with his theory.

Born in Toruń, Poland, Copernicus began his studies at the University of Kraków. His uncle was a prelate, a powerful church official. When Copernicus was 24, his uncle used his influence to have him appointed a canon, an official of the cathedral in Frombork, Poland. Copernicus used the income from this position to finance his studies in mathematics, astronomy, and medicine in Italy. When he was 33, he earned a doctorate from the University of Ferrara. Then he returned to Poland and his position as church canon.

While finishing his formal education, Copernicus became aware of serious problems within the Ptolemaic theory. Most significantly, Ptolemy's theory of the planets' movement in the galaxy seemed too complicated. Looking for a way to make sense of this defective logic, Copernicus began to review other theories of the universe.

After years of careful study, Copernicus came to believe that the Sun is stationary and located near the center of the universe. Further, he theorized that the earth is a planet like all the



other planets in the sky. As a result, the earth must move like the other planets. Copernicus believed the earth to be in the third planetary orbit around the Sun.

Disturbing fixed ideas about the universe was a dangerous thing. Copernicus's theory of the universe not only challenged Ptolmey's theory; it also refuted the Church's view of the universe. If Copernicus's theory became known, he could have been severely punished. Copernicus, however, was careful, and he shared his ideas only with those people with whom he could trust his life. Nonetheless, news of his thesis spread rapidly. Copernicus's masterpiece, On The Revolutions of the Heavenly Spheres, was published right before his death in 1543. For his achievements, Copernicus is considered the founder of modern astronomy.

#### REVIEWING WHE PROBUE

Directions: Answer the following questions on a separate sheet of paper.

- 1. How was Copernicus's theory of the universe different from Ptolemy's theory?
- 2. Critical Thinking Determining Cause and Effect. Why would the Church have been angered by Copernicus's theory?
- 3. Critical Thinking Recognizing Ideologies. Why do you think people in Copernicus's time reacted so negatively to his ideas?

People in World History Activity

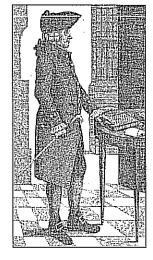
#### Profile 2

### Adam Smith (1723–1790)

How can social order and human progress be possible in a society where people follow their own self-interests? This is the problem that Adam Smith set out to solve.

Smith argued that people's personal interests lead to progress and order. To make money, people make things that other people want to buy. People spend money for the things they want the most. Buying and selling creates social harmony. Smith claimed that all this would happen without control, as if by an "invisible hand." This belief came to be called laissez-faire economics, the policy that a government should impose the fewest possible restrictions on prices and trade. Laissez-faire is a French phrase meaning "let do" or "leave them alone." As a result of his work with freedom and order, economic process, and a unified social theory, Adam Smith is considered the founder of modern economics.

Smith was born in Kirkcaldy, Scotland, to a distinguished family. His father was an important lawyer and public official; his mother was a member of the upper class. His college education was the best that could be had: first at Scotland's University of Glasgow and then at England's Oxford University. Smith left Oxford when he was 23 years old. Two years later, he became a professor at the University of Edinburgh, where he taught literature, law, and philosophy. In 1751, he was made a professor of logic at the University of Glasgow. Later that year Smith accepted



a post as professor in moral philosophy.

At Glasgow, Smith wrote his first book, *The Theory of Moral Sentiment* (1759). He then was hired to tutor the Duke of Buccleuch. While accompanying the young duke on a tour of France, Smith began his most important book, *The Wealth of Nations*.

When Smith returned to England in 1766, the young duke's stepfather provided him with a regular income. Freed from the need to earn a living, Smith was able to leave teaching and spend the next decade writing and studying. He published the first edition of *The Wealth of Nations* in 1776 and revised it five times during his life. The book became a major influence on economic policy in the early nineteenth century.

#### HEAVEAUNG THE BROTHE

Directions: Answer the following questions on a separate sheet of paper.

- 1. What social dilemma did Smith address in The Wealth of Nations?
- **2.** What is laissez-faire economics?
- **3. Critical Thinking Recognizing Bias.** What assumptions about human nature did Adam Smith make?
- **4. Critical Thinking Identifying Alternatives.** What might be the advantage of a government that controls trade—"hands-on" as opposed to Smith's "laissez-faire" ideal?



#### Of the Encyclopedia

oltaire was one of the most influential philosophers of the Enlightenment. A man with a sharp tongue and an even sharper pen, he was twice imprisoned in the Bastille for his comments. He spent two years in England, where he was impressed by England's greater freedom of thought. Back in France, he wrote philosophy and satire and, through the influence of Madame de Pompadour, was made a member of the French Academy.

In the passage below, Voltaire ridicules French responses to Diderot's Encyclopedia, to which Voltaire himself was a contributor.

Guided Reading In this selection, read to learn why Diderot's Encyclopedia was banned in France and why it should not have been.

A servant of Louis XV told me that while his master, the king, was dining one day at Trianon with a small group, the conversation turned first on hunting and then on gun powder. Someone said that the best powder is made with equal parts of saltpeter, sulphur and coal. The Duke de La Vallière, who knew better, argued that to make good gun powder all you needed was one part of sulphur and one of coal to five parts of saltpeter that had been well filtered, well evaporated, and well crystallized.

"It is funny," said the Duke de Nivernois, "that we amuse ourselves daily by killing partridges in the park at Versailles, and sometimes by killing men or by being killed ourselves at the frontier, without knowing exactly with what we kill."

"Alas! We are reduced to that state for most things of this world," answered Madame de Pompadour; "I do not know what the rouge I put on my cheeks is made of, and I should be very much embarrassed if someone asked me how the silk hose I am wearing is made."

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"It is a pity," the Duke de La Vallière then said, "that His Majesty confiscated our encyclopedic dictionaries, each of which cost us a hundred gold pieces: there we would quickly find the answer to all our questions."

The king justified the confiscation: he had been warned that the twenty-one folio volumes that were found on all the ladies' dressing tables were the most dangerous thing in the world for the French kingdom; and he wanted to know for himself if this were true before allowing anyone

to read this work. At the end of the dinner he sent three of his servants for a copy, each of whom returned carrying seven volumes with great difficulty.

They saw at the article "Powder" that the Duke de La Vallière was right; and soon Madame de Pompadour learned the difference between the old Spanish rouge that the ladies of Madrid used to color their cheeks, and the rouge of Parisian ladies. She learned that Greek and Roman ladies were painted with purple that came from seashells, and that consequently our scarlet was the purple of the ancients; she learned that there was more saffron in Spanish rouge, and more cochineal in the French.

She saw how her stockings were manufactured; and the operation of this process delighted her with wonder. "Oh, the fine book!" she exclaimed. "Sire, did you confiscate this storehouse of useful things so as to possess it alone and be the only wise man of your king-

They all jumped at the volumes like the daughters of Lycomedes at Ulysses' jewels; every one found at once what he was looking for. Those who had lawsuits were surprised to find there the judgment of their cases. The king read all the rights of the crown. "But really," he said, "I don't know why I was told so many bad things about this work."

"Well, don't you see, Sire," said the Duke de Nivernois, "it's because it is very good? Men do not attack the mediocre and the dull of whatever sort. If women try to ridicule a new comer, it is

#### Pradmara Someoberatanding 7

certain that she is prettier than they."

All the while the others kept leafing through the pages, and the Count de C... said aloud: "Sire, you are too fortunate that there should be under your reign men capable of knowing the arts and of transmitting them to posterity. Everything is here, from how to make a pin to how to make and direct your canons; from the infinitely small to the infinitely great. Thank God for having made men born in your kingdom who have thus served the entire universe. Other nations must either buy the *Encyclopedia* or copy it. Take all my property if you like; but give me back my *Encyclopedia*."

"Yet they say," replied the king, "that there are many faults in this so necessary and so admirable work."

1. Why did King Louis XV ban Diderot's Encyclopedia?

"Sire," rejoined the Count de C..., "there were two spoiled sauces at your dinner; we did not eat them, and we ate very well. Would you like to have the whole dinner thrown out the window because of these two sauces?"

The king felt the strength of reason; every one recovered his property: it was a happy day.

Envy and ignorance did not hold themselves beaten; these two immortal sisters continued their outcries, their schemes, their persecutions: ignorance is very learned in these matters.

What happened? Foreigners brought out four editions of this French work, banned in France, and made about eighteen hundred thousand gold pieces.

Frenchmen, try henceforth to understand your interests better.

#### **SUGASIFITSUFFISHEDUE**

**Directions** Use information from the reading to answer the following questions. If necessary, use a separate sheet of paper.

2.	After King Louis XV read the rights of the crown, he stated, "I don't know why I was told so many bad things about this work." Give three reasons why his guests argued not to ban the <i>Encyclopedia</i> .
3.	What did Voltaire mean by "Envy and ignorance did not hold themselves beaten"?

#### **Critical Thinking**

4.	<b>Synthesizing Information</b> In one of Voltaire's letters, he states, "Twenty <i>in-folio</i> volumes will
	never cause a revolution; it's the little portable 30 cent books which are to be feared." Discuss why
	a smaller, less expensive book could have a greater effect on peoples' ideas and beliefs and how it
	might lead people to revolt against their country.

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THE CASE OF CHARLES	The second secon	Zarana da karangan k			A STATE OF THE PARTY OF THE PAR	eprisises per decidente de la company de

#### Revolution and Enlightenment

In the Age of Enlightenment, innovative ideas in astronomy, physics, mathematics, medicine, chemistry, and philosophy changed the way people viewed the physical and social world. New theories and beliefs based on the scientific method and on reason replaced old beliefs based on magic, mysticism, and ancient writings.

**DIRECTIONS:** The outline below lists fields that changed tremendously in the Age of Enlightenment and people who initiated or contributed to these changes. In the space provided, record the discoveries, contributions, or ideas of these individuals.

0.	As	tronomy, Physics, and Mathematics
	<b>A</b> .	Copernicus
	3.	Kepler
	C.	Galileo
•	D.	Newton
		ology
	<b>A.</b>	Vesalius
	3.	Harvey
100.		nemistry
	A.	Boyle
	B.	Lavoisier
W.	G	overnment
	A.	Rousseau
	8.	Montesquieu
V.		terature
	A.	Voltaire
	8.	Diderot

# CHAPTER I

#### \* Enrichment Activity 17



#### The Commotion Galileo Caused

In Chapter 17, you read about the reaction of the Catholic Church to Galileo's ideas, which conflicted with Church teachings. Galileo's hypothesis that the earth was not the center of the universe threatened to

undermine the religious world-view that pervaded every aspect of European society. Read the excerpt below from Bertolt Brecht's play *Galileo*.

A round the corner from the market place a BALLAD SINGER and his WIFE, who is costumed to represent the earth in a skeleton globe made of thin bands of brass, are holding the attention of a sprinkling of representative citizens, some in masquerade, who were on their way to see the carnival procession. From the market place the noise of an impatient crowd.

BALLAD SINGER (accompanied by his wife on the quitar):

When the Almighty made the universe He made the earth and then he made the sun. Then round the earth he bade the sun to turn—That's in the Bible, Genesis, Chapter One. And from that time all beings here below Were in obedient circles meant to go:

Around the pope the cardinals
Around the cardinals the bishops
Around the bishops the secretaries
Around the secretaries the aldermen
Around the aldermen the craftsmen
Around the craftsmen the servants
Around the servants the dogs, the
chickens, and the beggars.

A conspicuous reveller—henceforth called the SPINNER—has slowly caught on and is exhibiting his idea of spinning around. He does not lose dignity, he faints with mock grace.

BALLAD SINGER:

Up stood the learned Galileo Glanced briefly at the sun And said: "Almighty God was wrong In Genesis, Chapter One!"

Now that was rash, my friends, it is no matter small:

For heresy will spread today like foul diseases.

Change Holy Writ, forsooth? What will be left at all?

Why: each of us would say and do just what he pleases!

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—From *Galileo* by Bertolt Brecht, translated by Charles Laughton, edited by Eric Bentley, copyright © 1940 by Arvid Englind, copyright © 1952 by Bertolt Brecht, copyright © 1966 by Eric Bentley.

**DIRECTIONS:** Answer the questions below in the space provided.

_	Nrite a one-sentence summary of the message the Ballad Singer tries to convey
	Write your own ballad, poem, or short play about either Copernicus or Diderot and the
F	persecution either man faced for expressing his views. If necessary, use a separate sheet of paper.

Glencoe



## Chapter 17 Section Resources

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#### Guided Reading Activity 17-1

#### The Scientific Revolution

DIRECTIONS: Answer the following questions as you read Section 1. 1. What did the writings of Ptolemy and Archimedes make obvious? 2. What new invention helped to spread new scientific ideas quickly and easily? 3. Where is Earth placed in the universe according to the Ptolemaic system? Contrary to Ptolemy, what did Copernicus argue concerning the construction of the universe? 5. What discoveries did Galileo make using a telescope? 6. Why did the Church order Galileo to abandon the Copernican idea of the nature of the universe? What did Isaac Newton define in his first book, The Principia? 8. What did William Harvey's observations and experiments show? 9. What field of science in Germany provided opportunities for women? 10. What did René Descartes emphasize and assert?

11. Who developed the scientific method?

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## Guided Reading Activity 17-2

The Enlightenment

DIRECTIONS: Fill in the blanks below as you read Section 2.

The (1)	was an eighteenth-ce	entury philosophical move-
ment of intellectuals wl	no were greatly impressed with	the achievements of the
	_ Revolution. (3)	
	were common words to the	
Enlightenment.		
Montesquieu's ana	alysis of the system of checks an	d (5)
through separation of p	powers was his most lasting con-	tribution to political thought.
Voltaire was especially	well known for his criticism of (	(6) and
his strong belief in relig	gious toleration. Diderot's most i	famous contribution to the
	e (7), or Cla	
Sciences, Arts, and the T	rades.	
The (8)	, a French group, we	re interested in identifying the
natural economic laws	that governed human society. T	hey believed the state should
	play of natural economic forces b	
<del>-</del>	on the economy. This doctrin	
	meaning "to let do."	
Jean-Jacques Rou	sseau argued for a social (11)	between
	ne people. Through a social cont	
be (12)	by its general will. The E	English writer Mary
	advanced the strongest stat	
Many Enlightenr	ment philosophes (14)	the Christian
	eople also sought a deeper perso	
	proved that the nee	
• •	y the eighteenth-century search	

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	1 73 10 1				Treatment

#### The Impact of the Enlightenment

**DIRECTIONS:** Fill in the blanks below as you read Section 3.

D.	Th	e Enlightenment brought important changes in art,, and
	lite	erature.
	A.	By the 1730s, a new artistic style known as had spread over
		Europe.
	В.	The eighteenth century was one of the greatest periods in the history of
		music.
		1. Johann Sebastian was one of the greatest composers of all
		time.
		2. Wolfgang Amadeus was a true child prodigy of the age.
	C.	The eighteenth century was important in the development of the European
		,
Hi.	En	lightenment thought had an effect on life in European states.
	A.	Frederick II of was well-versed in the ideas of the
		Enlightenment
	В.	Joseph II of Austria said, "Philosophy is the of my empire."
	C.	Catherine II of Russia said Diderot's theories "would have
		turned everything in my kingdom upside down."
11.	Th	e philosophes war as a foolish waste of life and resources.
		In 1740, a major war broke out in connection with the succession to the
		throne.
	В.	TheYears' War had three major areas of conflict: Europe, India,
		and North America.
	C.	The struggle between Britain and France in the rest of the world, known as the
		, was fought in India and North America.

Guided Reading Activity 17-4	ener Eisen Eisen Eisen Eisen

Colonial Empires and the American Revolution

DIRECTIONS: Fill in the blanks below as you read Section 4.

	In the sixteenth century, Portugal came to dominate	Spain's
	empire included parts of,	
	America.	
) =	By 1501, Spanish rulers permitted bet	ween Europeans and Native
	Americans, whose offspring became known as	•
3.	A noticeable feature of Latin American	_ was the dominant role of
	the large landowner.	
4.	Portuguese Brazil and Spanish Latin America were colonial	that
	lasted over three hundred years.	
5.	Catholic missionaries, especially the,	, and
	, fanned out to different parts of the S	
đ.	The United Kingdom of Great Britain came into existence i	n 1707, when the govern-
	ments of and w	ere united.
7.	William Pitt the Elder expanded the British Empire by acqu	uring
	and in the Seven Years' War.	
0	On July 4, 1776, the Second Continental Congress approve	d a declaration of
	written by Thomas Jefferson.	
9.	The, signed in 1783, recognized the i	ndependence of the Americar
	colonies.	
10.	. The proposed Constitution of the United States created a $_{ extstyle -}$	system
	in which power would be shared between the	
	the governments.	