## Chapter 17 Revolution and Enlightenment 1550-1800

A.	Caus	es of the Scientific Revolution	
			" as medieval
		ntists were known did not make	
		d. Relied on ancient authorities	like Aristotle for their
		ntific knowledge.	
	1.	Impact of the Renaissance Renaissance humanists had ma	aatarad
		as v	well This allowed them access
		to newly discovered works by	
		Archimedes and Plato.	1 tolemy, (17111 full flee)
	2.	New technology and mathema	ntics
	_,	Technical problems that require	
		accurate measurements served	
		activity. Invention of new ins	truments like the
		and	 made new
		discoveries possible. The	
		helped spread new ideas quick	xly and
		easily.	played a key
		role in the scientific achievem	•
		olden days and developed new	v theories that became the
		foundation of the	
В.	Scie	ntific Breakthroughs	·
	Disc	overies in astronomy led to a ne	w conception of the
	univ		
	1.	The Ptolemaic System	1 1 0
		Philosophers of the Middle Ag	ges constructed a model of
		the universe known as the	
		system. This system is geoce	mure because it places
		at the	center of the universe.

The tenth sphere is the	
	" Beyond the ter
	, where gods reside
The	<del></del>
would like this view of the	e universe.
Copernicus and Kepler	
Nicolas Copernicus thoug	
or	·
He told people the	
	e sun around the Earth was
<del>-</del>	of the Earth
its	
Johannes Kepler used deta	ailed astronomical data to an
at his laws of planetary me	otion. Proved that planets
orbits were	·•
(	
Galileo's Discoveries	
User of a	Used it to
prove sun	
the heavenly bodies were	-
substances just like	He four
Church told him to	
thoughts as they were aga	
Most people agreed with 0	
universe had not been exp	lained.
Newton's View of the Un	iverse
He defined	
that governed the planetar	y bodies. Crucial was the
universal law of	<u>-</u>
which expands why the pl	anetary bodies
continue their	
about the sun. Explained	
by	of gravity. He also tall

		about the
		concept of the universe.
	5.	Breakthroughs in Medicine
		had dominated teachings
		here. Many ideas are to be proven
		showed that the
		beginning point for the circulation of blood was
		the
	6.	Breakthroughs in Chemistry
		was one of the
		first to conduct controlled
		experiments in His
		work on the properties ofled
		to Boyle's law-the volume of
		with the pressure exerted on it.
		invented a system for naming chemical elements, still used today, founder of
C.	Won	nen's Contributions
	1.	<del></del>
		Was especially critical of the growing belief that human
	2.	through science were the masters of nature.
		Female astronomer-discovered a
		·
D.		osophy and Reason
	1.	Descartes and Rationalism
		began by thinking and
		writing about the doubt and uncertainty that seemed to be
		everywhere. One fact seemed to him to be beyond doubt-his . He
		doubt-his He emphasized the importance of his
		· · · · · · · · · · · · · · · · · · ·

He would accept only those things that reason said were true. ""
Was called the father of modern
This system of
thought is based on the belief that
is the chief source of
Bacon and the Scientific Method
procedure for collecting and analyzing evidence. Was
crucial to evolution of science in the modern world. Was developed by
believed that
scientist should learn about nature by usingproceeding
from the particular to the general. Was more concerned with practical matters than pure science. Observe natural events, propose a(theory), or possible explanation, then do experiments to test theory. This will lead to
tenment to the Enlightenment an 18 <sup>th</sup> century philosophical movement of intellectuals were greatly impressed with the achievements of the ntific Revolution.
Argued that every person was born with a tabula rasa or He suggested that people
were mold by the that came through their senses from the surrounding
Believe that if
were
and people were
exposed to the right influences, then people could be changed to create a new and better society.

which could be uncovered through systematic investigation. If use scientific methods would be able to discover the natural laws that governed human society. (Basically, if people \_\_\_\_\_ what Is happening in society then they can \_\_\_\_\_ new ways to \_\_\_\_\_ which makes a better society.) В. Ideas of the Philosophies Intellectuals of enlightenment called philosophes which means \_\_\_\_\_. Most leaders of the enlightenment were\_\_\_\_ The Role of Philosophy
Role was to \_\_\_\_\_\_ the world.
Montesquieu (French Noble) 1. 2. Did a study of governments. Three basic kinds of government: 1. \_\_\_\_\_\_for small states 2. \_\_\_\_\_\_ for large states 3. for moderate Used England as an example of a monarchy. had 3 branches of government-(\_\_\_\_\_), (\_\_\_\_\_), and the \_\_\_\_\_. Used separation of powers with a system of Used his principles in the 3. Voltaire Greatest figure was Francois Marie Arouet known as \_\_\_\_\_. Especially known for his criticism of \_\_\_\_\_

World machine operated according to natural laws,

		and his strong belief in religious
		He championed, which is based on reason and natural law. In this view a mechanic
		reason and natural law. In this view a mechanic
		() had created the universe. The
		universe was like
		universe was like  God had created it, set it in and
		allowed it to run
		his interference and according to its own natural laws.
	4.	Diderot
		Denis Diderot, wrote the
		to collect all the new information being brought into the
		world. Was a volume set of information.
C.	New	Social sciences
	1.	Smith on Economics
		Was a physiocrat who was interested in identifying the
		natural economic laws that governed human society.
		Maintained that if individuals were to
		pursue their own
		all society would benefit.
		The state should not interrupt the free play of natural
		economic forces by imposing regulations on the
		economy. Became known
		·
		in his work,, he
		gave government 3 roles: should
		from
		invasion, 2 <sup>nd</sup> should
		from and finally should
		from and finally should keep up certain public works that private individuals alone
		(Roads, canals-used for social interaction and
		trade.)

	2.	Beccaria on Justice
		Cesare Beccaria believed that punishment should not be
		exercised in brutality. Was against
D.	The S	Spread of Ideas
	1.	The Social Contract
	1.	was one of the
		most famous of later enlightenment. Argued that people
		had adopted laws and government in order to preserve
		their private property. Rousseau presented his concept of
		the social contract. Through a social contract the
		the social contract. Through a social contract the
		agrees to be governed by its general will. So
		1S
		achieved by being forced to followed what is for the
		because the
		general will represents what is best for the
		. He sought a
		balance between heart and mind, between emotions and reason.
	2.	Women's rights
		advanced the
		strongest statement for the rights of women. She noted
		that the same people who argued that women must also said that
		government based on arbitrary power of
		their over
		She also argued that enlightenment was based on an idea
		ofin all human beings. So
		women to same rights
		as men because women have
	3.	The Growth of Reading

			ideas to the Ma	ıny
			new books were written and directed at the new	•
			reading	
			had the first daily	
			newspapers.	
		4.	The Salon	
			Were the elegant drawing rooms of the	
			great urban house. Brought	
			writers and artists together with aristocrats, government official, and wealthy middle class people.  was one o	
			the greatest. Here they would	
			and	
			artistic taste.	
		5	Religion in the Enlightenment	t
			most enlightened thinkers were still In England the most	ı
			famous new religious and evangelical movement- was	
			started by His	
			sermons often caused people to have conversion	
			experiences.	
III.	The	Impac	t of the Enlightenment	
	A.	Enlig	thtenment and Absolutism	
		Enlig	thtenment thought influenced politics through like freedom of	
		religi	ous worship, freedom of speech, press, etc. To establish	h
			preserve these natural rights believed that people needed	
			by enlightened rulers. Only	
			gmonarchs	
			<u> </u>	
			·	
		1.	Enlightened Absolutism	

Great importance to enlightenment was the spread of

while maintaining their	
Examples to follow	
Prussia: Army and Bureaucrac	ev
Frederick William I and Fredri	- <del>-</del>
a majo	
Created a highly efficient gove	
was the	_
Frederick II or	
was one of the best educated a	nd most cultured monarch
of the time. Was a dedicated ru	ıler. He
the	use of
e	xcept in treason and
murder. Granted	
of speech and press.	
	inherits throne.
Worked to centralize and stren	
	had many reforms.
Abolished	•
the	
	the
by freeing the serfs, the	
with religious reforms, and	were
unhappy because they	
	the
.1	
changes.	
Catherine the Great	
	the works of the
Catherine the Great  Catherine II, was familiar with	
Catherine the Great	them

eyes of the law. In end did very	
because needed the support of	Cha did aynan
the	
RussianPoland.	by taking nan or
Enlightened Absolutism?	
Only changes based on enlightenmen primarily by their interest in the of their state. more taxes and create armies.	t. Most were guided power and
more taxes and create armies.	
The Seven Years War	
Stage was set when a war broke	out over for the
throne.	
Austrian Succession p.559	
	to succeed to
throne but	
did not want it to happen so	
	Maria allie
with	
Succession. Was fought in	, in
and in	
	where the British
captured the French fortress of I	Louisbourg. After signed Treaty of
Guaranteed the return of all occ	upied territories except ia refused to accept the
loss of Silesia.	
The War in Europe	
Two new rivalries appeared	and

	<del></del>	reas and Austria and
		New world war. In
	officially recognize	ed Prussia's
permanent contro	ol of Silesia	
The War in India		
Britain and Franc	ce struggle called th	
fought in		, was
		. Britain
more persistent a	nd	in India. With
1		the French
withdrew and lef	t India to the Britis	
The War in North	n America	
America. British areas—the unsettledFrench gained su	pport of	over two main aı
Americans. When	n	to
power in England	d things change. Br	ritain began to total
	the Fren	nch in battle and at
sea as well. Came	e down to battle of	•
	where the	e
	were eve	
to	, Trea	aty of Paris the
	gave	
lands		
		also gave
	to	
	e France's allies.	
Enlightenment ar	nd Arts	
Architecture and		
with	<del></del>	
	_	Art was a new styl Emphasized grace.
, · · · · · · · · · · · · · · · · · · ·		ETHORISTICA OTACE

		char, and gentle action. Useddesigns.
	2.	Music
		Johann Sebastiancomposer and one of the greatest of all times. George Frideric
		Both the
		Classical style—Franz Joseph Haydn-and Wolfgang Amadeus Mozart
	2.	Literature
		Novelists began to choose themes.
		wrote novels about people without morals who survive by their wits.
IV.	THE	AMERICAN REVOLUTION
	A.	Britain and the American Revolution
		The
		came into existence in 1707 so the term British came to refer to both the and the Last Stuart ruler replaced by
		dynasty. The first kings
		namecould not speak English so
		had to have advisors to help rule.
		of cabinet ( ) Britain
		of cabinet (). Britain controlled Canada as well as the
		in America.

The American Revolutions Begins

1.

	Parliament impo
	requiring certain
printed materials to carry a sta	
and ev	
to a series of actions and reac	-
Colonies organized the	
<i>g</i>	
to take up arms and organize	militias, Fighting broke
in	• •
and	
took place and	
served as its commander in ch	
	approved the
	writt
by	
Great importance to colonies fron	
Co	ountries. They were ea
gain revenge for earlier defea	ountries. They were eag
gain revenge for earlier defea	ts at hands of British.
gain revenge for earlier defeated were the	ts at hands of British. first to give USA
gain revenge for earlier defea	ts at hands of British. first to give USA h and Spain.
gain revenge for earlier defeated were the	ts at hands of British. first to give USA h and Spain.
gain revenge for earlier defear were the recognition followed by Dutc	ts at hands of British. first to give USA h and Spain was forced
gain revenge for earlier defear were the recognition followed by Dutch surrender at Yorktown.	ts at hands of British. first to give USA h and Spain was forced recognize
gain revenge for earlier defear were the recognition followed by Dutce surrender at Yorktown.	ts at hands of British.  first to give USA  h and Spain.  was forced  recognize  n colonies. The treaty a
gain revenge for earlier defear were the recognition followed by Dutch surrender at Yorktown.	ts at hands of British. first to give USA h and Spain was forced recognize n colonies. The treaty a

created a government that	tl
to deal with	
Met in	
plan for a better government.	
The Constitution	
Created a FEDERAL governmen	t in which the natio
government and the state	
governments	
	with
amendments. Became known as	to the
the	to
people. Many of the rights were orights proposed by the philosophe	derived from the na
rights proposed by the piniosoph	
as the	of