<u>Chapter 16--Toward a New Heaven and a New Earth: The Scientific Revolution and the Emergence of Modern Science</u>

Key Terms

Background to the Scientific Revolution
Natural philosophers
Aristotelian-Ptolemaic worldview
Copernicus
Geocentric
Heliocentric
Tyco Brahe
Johannes Kepler
3 Laws of Planetary Motion
Galileo
Telescope
Inertia
Isaac Newton
Paradigm
Advances in Medicine
Galen
Four humors
Paracelsus
Vesalius
William Harvey
Women in the Origins of Modern Science
Margaret Cavendish
Querelles des femmes
Toward a New Earth
Rene Descartes
Cogito ergo sum
Cartesian dualism

Rationalism

The Scientific Method

Francis Bacon
Deductive Method
Inductive Method
Science and Religion in the 17 th C.
Spinoza
Pantheism
Pascal
The Spread of Scientific Knowledge
Scientific societies
Chapter 17—The 18 th Century: An Age of Enlightenment
Key Terms
The Enlightenment
Immanuel Kant
"Dare to Know"
Reason
Bernard de Fontenelle
Skepticism
Pierre Bayle
Textual Criticism
Cultural relativism
Newton
Locke
Philosophes
Montesquieu
Voltaire
Voltaire Calas affair
Calas affair
Calas affair Deism

Adam Smith
Natural Laws
Laissez-faire
Labor theory of value
Baron d'Holbach
Atheism
Rousseau
Social contract
General will
Mary Wollstonecraft
Salon
Marie Therese de Geoffrin
Freemasonry
Culture and Society in An Age of Enlightenment
Rococo
Neoclassicism
Jacques Louis David
Classical music
Opera and oratorio
Sonata
Concerto
Symphony
Bach
Handel
Haydn
Mozart
Novel
Edward Gibbon
High culture
Popular culture
Cesare Beccaria

Festival

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Commercialization of leisure

Religion and the Churches

Toleration

Pietism

John Wesley

Methodism

Free Response Questions

- 1. Discuss the causes of the Scientific Revolution and evaluate the impact of it on European thought and culture.
- 2. To what extent did the Enlightenment express optimistic ideas in 18th century Europe? Illustrate your answer with references to specific individuals and their works.
- 3. Explain the development of the scientific method in the 17th century and the impact of scientific thinking on the traditional sources of authority.
- 4. Both Jean-Baptiste Colbert (1619-1683) and Adam Smith (1723-1790) both sought to increase the wealth of their respective countries. How did their recommendations differ?
- 5. Compare and contrast two theories of government introduced in the period from 1640 to 1780.
- 6. Describe and analyze the influence of the Enlightenment on both elite culture and popular culture in the 18th century.