Modern European Scientific Practices	Modern European Institutions	Euro-American Imperialism
	ca. 1500 Portuguese displace Muslim traders in Africa	
	English capitalism flourishes 1450-1640	1490s Spanish colonizes New World
Copernicus 1473-1543 founds mod. astronomy	1524 Spain establishes council of Indies	1490s Vasco De Gama establishes
	16-17 th c. enclosure of English commons	Portuguese in India & Africa
	Queen Elizabeth 1533-1603 begins Eng.	1565 first Spanish settlement N. Am.
Francis Bacon1561-1626 uses induction &deductio	n colonization and builds large navy	1600 English East India Co. founded
not apriori scholastic method and writes	to defeat Spain 1588	1621 (Dutch) West India Co. est. for
scientific manuals using witch trials		slave trade
Galileo 1564-1642 uses math to analyze nature	Académie Française est. 1635	1637 Puritan genocide vs. Pequots
Descartes 1596-1650 applies math to all knowledge	Royal Society of London est. 1645	Dutch city-states gain independence
& founds mod. philo & analytic geomety	Treaty of Westphalia 1648 est. mod. nations	from Spain (1848)
John Locke empiricism, private property, and	English (Glorious) Revolution 1688-9	1660 Royal African (slave)Co.begun
1632-1704 constitutional gov't	constitutional gov't/Bill of Rights	English confiscating Irish lands
Isaac Newton 1642-1727 calculus, gravity, fluid		1670s New Eng.war vs.Wampanoags
mechanics, light theory, laws of motion		1675-7Virginians vs. Susquehannock
		1680 Pueblo Indian revolt drives
Voltaire 1694-1788 secularism, science & freedom		Spain out of area
David Hume 1711-76 human nature theory sets	1730s about 1/3 of Europe pop. literate	
empiricist approach to psych. & sociology	U.S. Revolution 1770s	1766-69 Spanish establish California
Denis Diderot 1713-84—secularism, sci. method,	1770s newspapers widely available	missions
encyclopedia (pub. 1751-72)	1770s scientific journals flourish	British expel French (1756) from
Immanuel Kant 1724-1804 mod. philosophy	1780s scientific academies flourish	Canada & India
Adam Smith 1723-90 founds modern economics	1780s first English cotton industrialization	1803 U.S. Louisiana purchase
Mary Wollstonecraft 1759-97 women's rights	French Revolution 1780s-90s	1812 Bolivar revolts in Columbia
	Haitian Revolution 1801-4	1818-22 Chile & Peru independence
Auguste Comte 1798-1857 founds positivism	British Industrial Revolution 1780-1850	U.S. Treaty of Guadalupe 1848
Charles Darwin 1809-82 theory of evolution	1800s workplace shifts from home to factory	-
Herbert Spencer 1820-1903 pop.evol. & founds soc	=	1895 Japan defeats China & beg. col.
Karl Marx 1818-83 founds political economy	1877 U.S. Reconstruction ends	1898 U.S. takes Spanish colonies

Sources:

Peter Hamilton, "Enlightenment and the Birth of the Social Sciences," <u>Modernity</u>, ed.Stuart Hall, et al., Blackwell Pubs.,1996,p.19-54. <u>The Concise Columbia Encyclopedia</u>, ed., Judith Levey and Agnes Greenhall, New York: Columbia University Press, 1983.

Scientific method:

Claimed to combine reason and empiricism through knowledge based on European experimental method (17th c. scientific revolution, esp. Newton) making objective statements beyond philosophical, theological, and ideological disputes.

Newton's work popularized in Enlightenment France by Voltaire and philosophes