The Enlightenment Why Did it Happen?



in the 1500s, people believed the earth was flat

by the 1600s, the seeking of knowledge led to the questioning of old assumptions and then to a breakthrough in Western thought

transformations of religious thought:

deism: religious philosophy based on reason and the idea of natural law

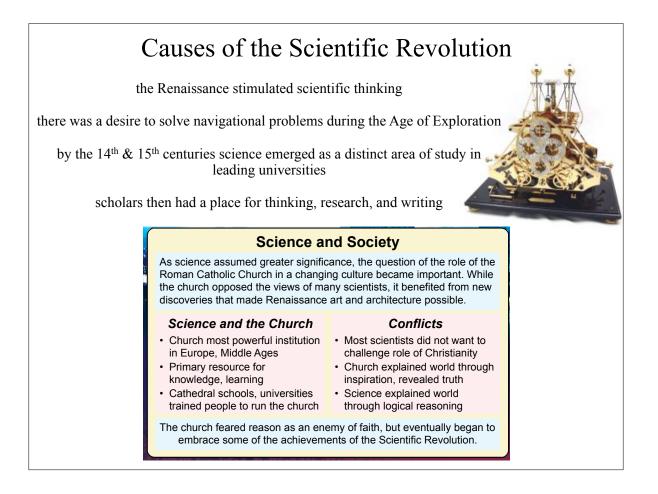
methodism: religious movement that stressed the value of personal religious experience through community work *(these people and their ideas later spread to America)*



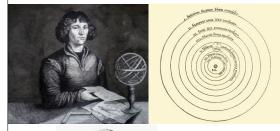
which all contributed to the movement that became known as **the Age of Enlightenment**

this cultural movement of intellectuals that emphasized using reason rather than tradition

thinkers of the Enlightenment who spread exciting new ideas were known as philosophes



The Scientific Revolution



Nicholas Copernicus (1473 - 1543)

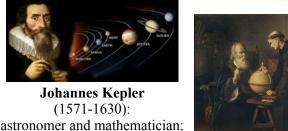
started his scientific career in Poland in 1492 upheld the common belief of a round earth that rotated on its axis as it revolved around the sun kept his ideas secret = wouldn't be persecuted

Tycho Brahe (1546 - 1601)found evidence in the late 1500s that supported Copernicus' heliocentric theory set up an astronomical observatory carefully observed the sky every night for years accumulated data about the movement of the stars and planets

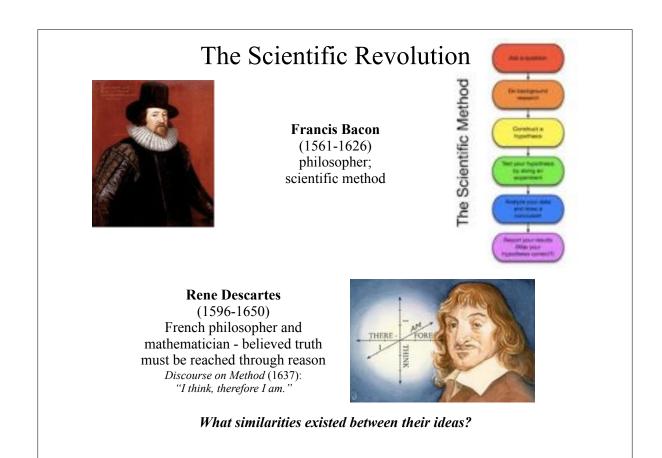


(1571-1630):

elliptical orbits



Galileo Galilei (1564 - 1642)mathematician; telescope; discovered moons orbiting Jupiter: t all heavenly bodies revolve around the sun Catholic Church put him on trial; forced to recant

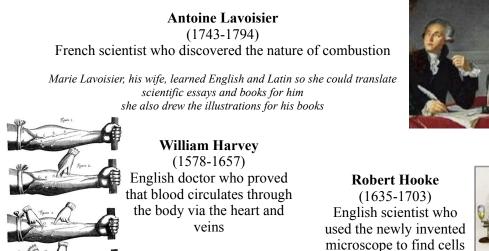


The Scientific Revolution



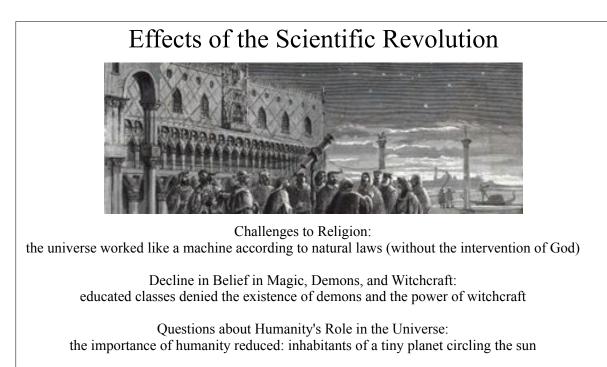
Joseph Priestly (1733-1803) English chemist and clergyman discovered oxygen and studied the existence of carbon dioxide

in vegetable tissue





Andreas Vesalius (1514-1564): medical student; dissections



Gave Humanity Control of Nature: through science and technology, they could improve human life

Challenges to Established Views of Women: The new scientific ideas concluded that both men and women made equal contribution to reproduction