

Scientific Revolution

Development of modern science

- Experimental
 - Hypothesis
- Empirical
 - Results from data
 - derive data
- Mechanical
- International
 - Peer review
 - Has to be repeatable
 - Cannot be scientific breakthrough if it only happens once
- Utilitarian
 - Benefits the most amount of people is the best kind of ways
 - Research dollars that betters mankind

Science and Astronomy

- Farmers (calendar)
 - More accurate calendar
- Sailors (navigation)
 - North star
 - Chart your course outside land
 - 3 points
- Church (heaven)
 - Saint attached to everyday
 - Easter 1st Sunday after the 1st equinox
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- -Aristotle
 - Teacher of alexander the great
 - Everything goes around the Earth
 - What hold the planets in place was crystal glass
 - Angels push the planets through the sky kept together by glass
 - Was no angle
 - Christian/catholic church bought into

Scientific Discoveries

- Copernicus (1473-1543)
 - Calculated stars with calendar right
 - Poland priest astronomer
 - Solar system based on Greek philosopher Aristotle
 - Put the sun at the center of the universe
 - Planets revolved around the sun
 - Planet just like all the others
 - Circular motion
 - Threw things into chaos

- o Published theory in 1543
 - o Granted a heretic
 - o Buried in unmarked grave
 - o 2010 catholic church recognized him and buried him marked
- Brahe (1546-1601)
 - o Danish noble
 - o Chart the night sky
 - o
- Kepler (1571-1630)
 - o german
- Galileo (1564-1642)
 - o Telescope as a mechanic device, italian
- Descartes (1596-1650)
 - o French
- Newton (1642-1727)
 - o Gravity

Results

- World becoming more mechanical, less spiritual
- Science and religion becoming divided
- Scientific revolution gives rise to agricultural and industrial revolutions