THE SCIENTIFIC REVOLUTION LATE 1500s-1700

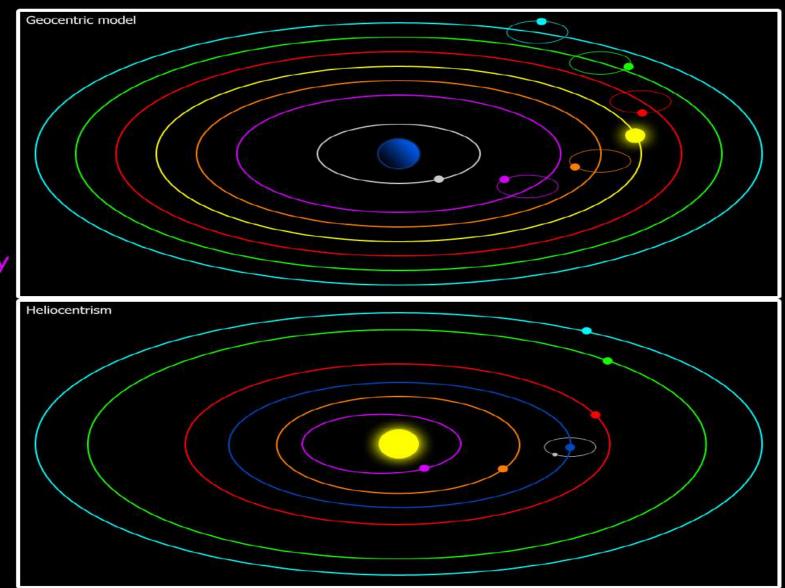
BACKGROUND

- Renaissance developed a thirst for knowledge.
- Protestant Reformation challenged government and religion.
- Scientists questioned the ideas of ancient scholars.

THE RISE OF SCIENTISTS

- Copernicus- Heliocentric Theory
- Galileo- Makes the heliocentric theory popular
- Descartes- Mathematics and Logic
- Bacon- Experimental Method
- Newton- Law of Gravity and Laws of Motion
 - Numerous contributions to medicine and scientific instruments

HELIOCENTRIC VS. GEOCENTRIC



Earth Moon Mercury Venus Sun Mars Jupiter Saturn

The Catholic Church puts Galileo on Trial

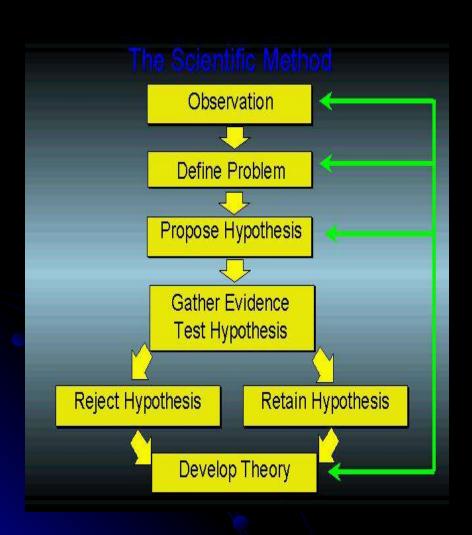


DESCARTES



- Encourages skepticism
- Cannot trust senses to seek truth
- Seeks truth through mathematics and logic
- Develops analytical geometry

BACON



- Scientific Method
- Learning through experience.
- Used science experiments to prove and explain his theories.

NEWTON

- Uses the work of Galileo and Copernicus
- Develops Law of Universal Gravitation and 3 Laws of Motion
- Compares the way the universe works to a clock



Medicine and Scientific Instruments

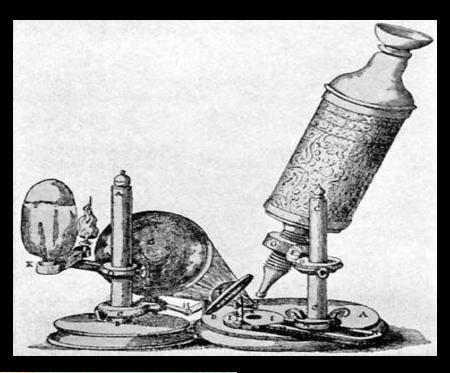
Jenner- Small Pox vaccination

Fahrenheit- Mercury Thermometer

- Janssen and Leewenhoek- first microscope
- Vesalius- Human anatomy

Contributions to Science







LEGACY OF THE TIME PERIOD

Logical procedure for problem solving.

 Scientific advancements spread throughout Europe

 The rebellious spirit of the time influenced the thinkers of the Enlightenment

LEGACY OF THE THINKERS

- Copernicus- established the heliocentric theory and influenced a long line of great astronomers
- Galileo- popularized heliocentric theory, challenges Church authority, and made contributions to telescope technology
- Descartes- made valuable contributions to mathematics, philosophy, and science
- Bacon- helped develop the experimental method and helped scholars break away from ancient methods
- Newton- made valuable contributions to the fields of calculus, physics, and optics.