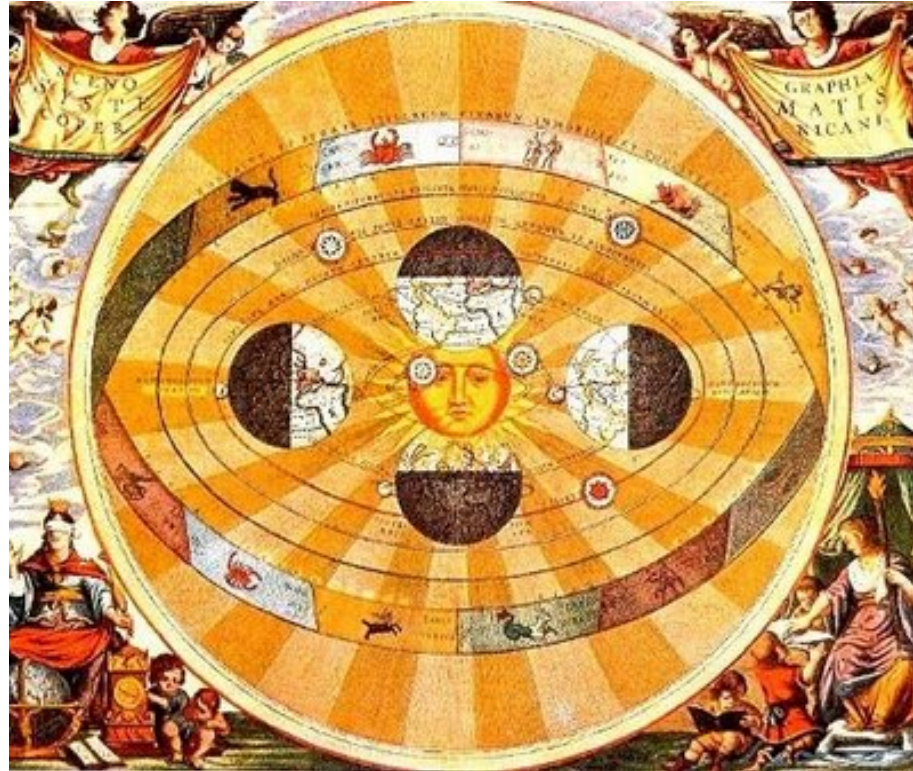


The Scientific Revolution



Do Now Activity



Journal #4

Interpret the following quote in your own words.

“When theology became subordinate to science,
meaningful human advancement became a
possibility.”

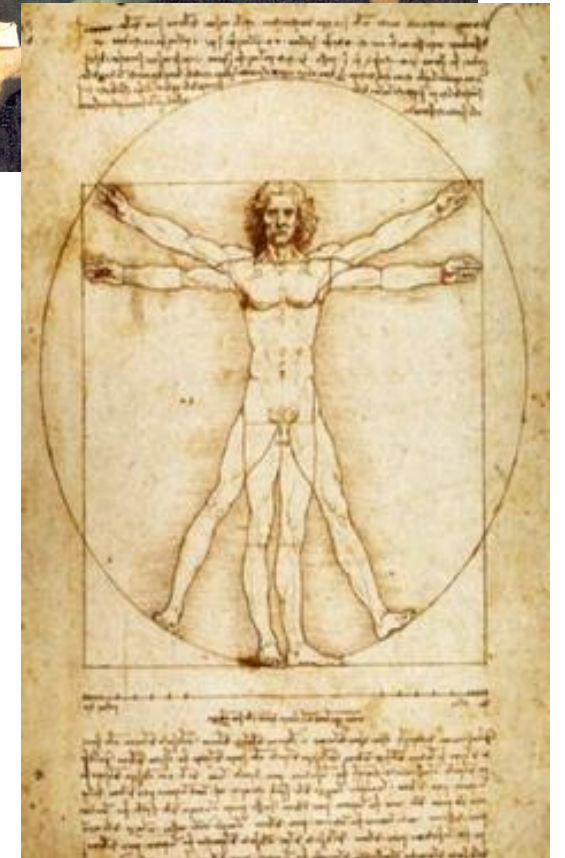
– Herbert Butterfield, 1949

Revolution

A major change in the way something works or in people's ideas about it, or overthrow of government

Scientific Revolution

- Influenced by the Renaissance and Reformation
- 1500s to 1700s
- **Roots of modern science**
- Changed the way people thought about the world
- Before, thinking in Europe mainly based on the Bible
- **Increased contact with Jews and Muslims exposed Europeans to new ideas**



Scientific Revolution

- Europeans began to realize they were wrong about some things
 - Believed there were only 3 continents → Age of Discovery



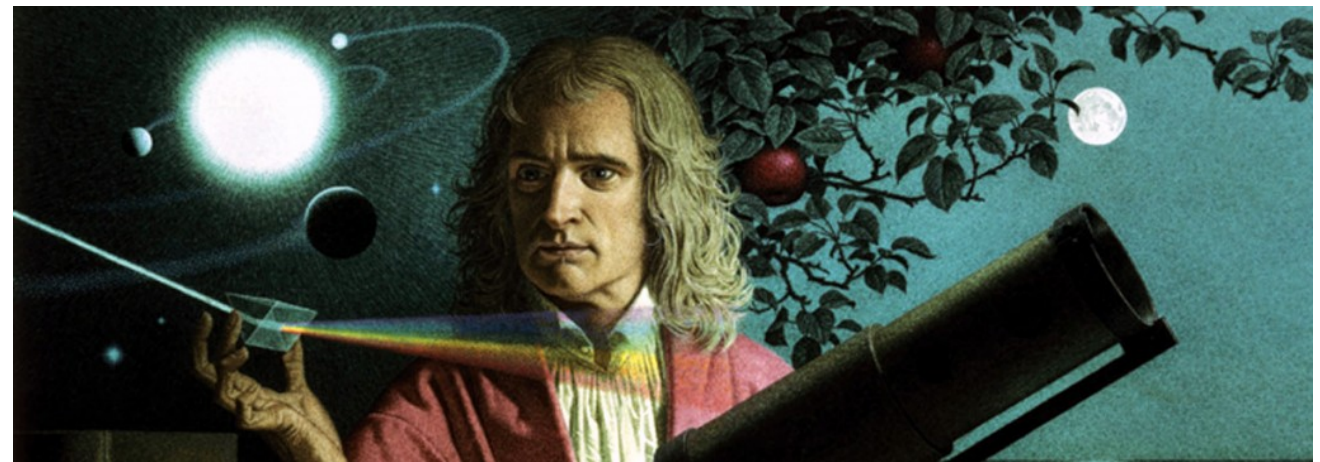
But what was “discovered” in 1496?

- Reason and logic, instead of just faith, to explain the world
- What people thought → What people observed



Religion vs. Science

- Science questioned the Church's beliefs and the Bible
- Many scientists were religious though
 - Science as a way to understand God



Stations Activity

Scientific Revolution Contributors	
Contributor	What They Are Remembered For
Copernicus	
Galileo	
Francis Bacon	
René Descartes	
Isaac Newton	

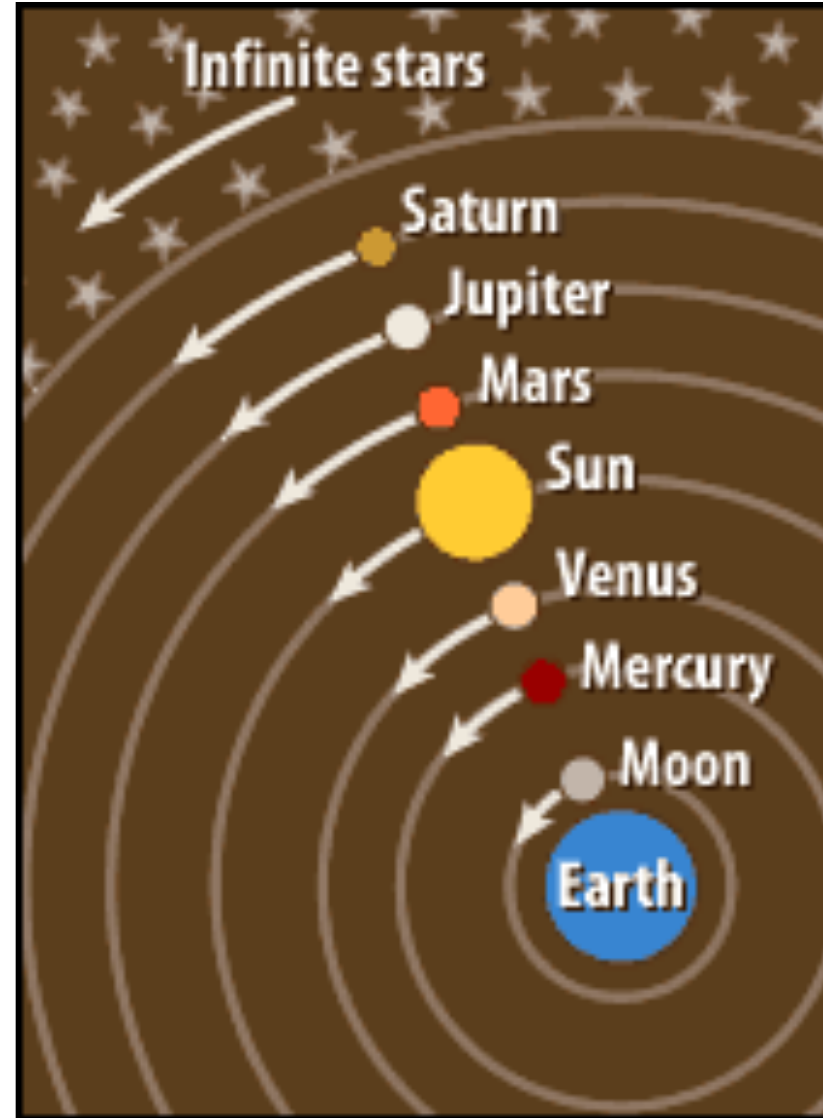
- Use the station readings posted around the room and read the handouts
- Fill out your graphic organizer. You'll have about 5 minutes for each station

Scientific Revolution Contributors

Contributor	What They Are Remembered For
Copernicus	Heliocentric Theory – Sun is at the center
Galileo	Astronomy, gravity, parabola
Francis Bacon	Scientific Method
René Descartes	Scientific Method, philosophy, analytical geometry
Isaac Newton	Calculus, gravity, laws of motion

Geocentric Theory vs Heliocentric Theory

- Earth is at the center of the universe
- Aristotle in 400 BCE and Ptolemy in 200CE
- God created Earth
- Roots of modern science
- Changed the way people thought about the world



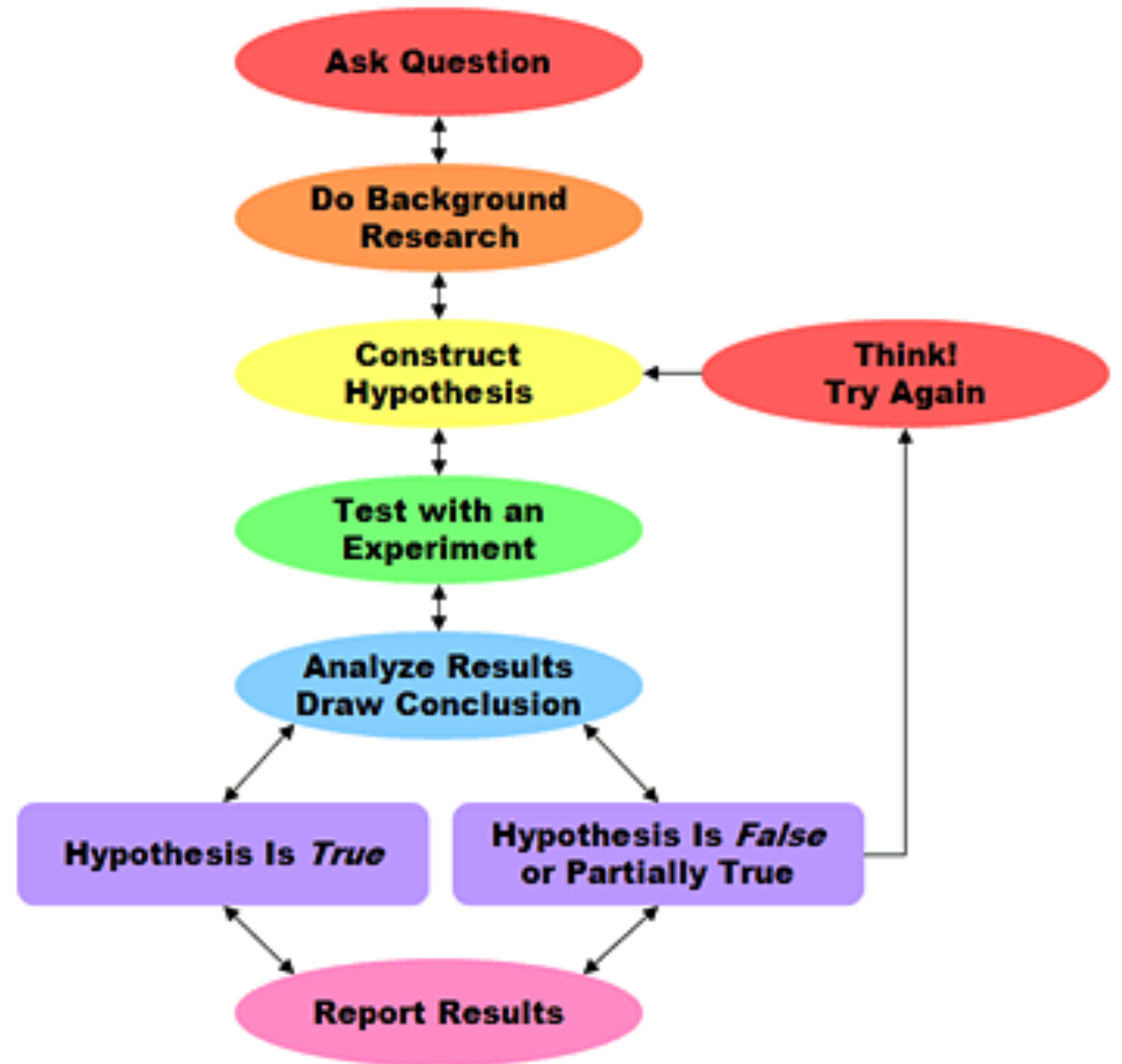
Heliocentric Theory

- Nicolaus Copernicus in the 1500s
- The sun is at the center
- Proven with mathematical equations that planets revolved around the sun in 1600s
 - Johannes Kepler



Scientific Method

- Logical procedure for gathering and testing ideas
- Francis Bacon & Rene Descartes



RAFT Activity

Role	Audience	Format	Topic
<ul style="list-style-type: none">- A scientist- A church official- A common citizen	<ul style="list-style-type: none">- Your best friend	<ul style="list-style-type: none">- Personal Letter- Postcard	<ul style="list-style-type: none">- The Scientific Revolution (new ideas in Europe)

- Letters should be **at least** one handwritten page.
 - Postcards can be shorter, but must include a drawing for the front!