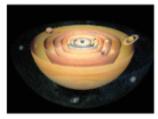
Scientific Revolution	
E=mc ² ?	
	1
Scientific Revolution • Defined — New way of thinking about the natural world based on careful observation and willingness to question. • Time frame — This new way of looking at everything began about the mid-1500.	
Other Important Terms • Scientific theory-is model that describes accurately a large class of observations, and makes definite predictions about the results of future observations. • Heliocentric theory-stated the sun was at	
the center of the universe • Scientific method-logical procedure for gathering and testing ideas	

View of the Universe Before 1500

- Based on Artistotle's 2000 year old views which were based on what he saw. He put these views in a book On the Heavens
- In the second century A.D. Ptolemy worked Artistotle's views into a complete model of the universe

View of the Universe Before 1500



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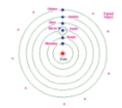
Nicholas Copernicus

- His idea was that the sun was stationary at the center and the planets moved in circular orbits around the sun.
- His theory was not published until 1543.



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The Published Theory



- Copernicus did not want to be at odds with the church.
- The Pope only wanted him to use his findings to reform the calendar.

The Published Theory

- Nearly a century passed before the idea was taken seriously.
- Then two astronomers Kepler and Galileo publicly supported the theory.

Kepler



- Proved the accuracy of the Copernican theory.
- Also found the planets were not moving circles, but in ellipses

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Galileo

- The Law of Acceleration: All things fall at 32 ft/sec/sec.
- With a telescope he found the following:



Galileo

- · Jupiter had moons in orbit around it.
- · And our moon had mountains like the Earth.
- · Also the Sun had spots.
- Finally, the planets moved the way the Copernican theory predicted.

Galileo and the Church

- In 1632 Galileo published a Dialogue Concerning the Two Chief World Systems.
- In it he defended the Copernican theory, and basically said science should be apart from the Church.
- He was arrested and the Copernican theory was banded.

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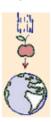
Sir. Isaac Newton



- In 1687 published Principia Mathematica
- In it he explains the Law of Gravity

The Law of Gravity

 Every Body is attracted to every other body.



Publication Information

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