

# Dylan Bland

Leq 31  
Scientific Revolution

Leads - a new way of seeing

- Camera obscura

- Anton van Leeuwenhoek - father of microscopy

## Scientific Revolution (1543 - 1687?)

- dare to see - S.R. Ad factu

Nicolaus Copernicus (1473 - 1543)

- heliocentrism

- Reimagining in Ptolemaic thinking

- geocentrism

- Copernican model

- heliocentrism

Giordano Bruno (1548 - 1600)

- tried for heresy & burned

Tycho Brahe (1546 - 1601)

- meticulous data collection

Johannes Kepler (1571 - 1630)

- Kepler's laws of interplanetary motion

Galileo Galilei (1564 - 1642)

- Telescope usage

- The moon has mountains

- Jupiter has moons

Galileo vs. the Inquisition

- calls priests of the Church nonsense

## Scientific Method

- Aristotelian in nature

- Empiricism

- going out into the world & observe

- St. Thomas Aquinas
  - declares Aristotle
  - deductive reasoning

Sir Francis Bacon (1561-1626)

- inductive reasoning
- 4 idols

All preconceived notions are questionable

1) Idols of the Tribe

- beliefs b/c others believe

2) Idols of the Cave

- beliefs due to limited experience

3) Idols of the Marketplace

- beliefs due to misuse & confusion through language

4) Idols of the Theatre:

- beliefs colored by religion & pagan philosophy

Scientific Method = Experimentation + Induction