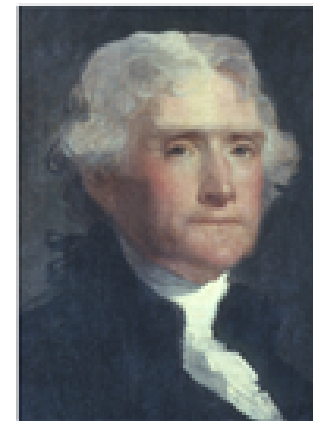
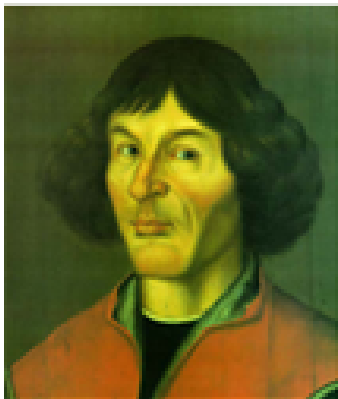


SOL WHII.6 – Changes in the
16th, 17th, & 18th Centuries
Part 2: The Scientific Revolution &
The Enlightenment



Scientific Revolution Vocabulary

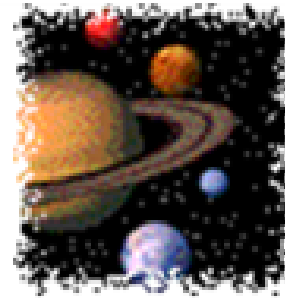
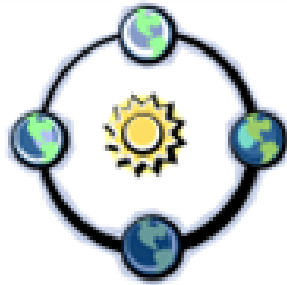
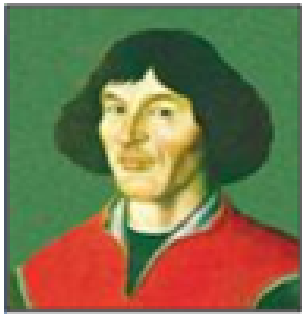
1. scientific revolution – [] way to think about world based on []
[] as opposed to depending on Bible and ancient Greeks
2. Copernicus – astronomer who said [] (heliocentric)
3. heliocentric – theory that []
4. Kepler – mathematician proved Copernicus' theory & []
5. Galileo – [] over earth as center of universe

6. scientific method – [redacted] for gathering and testing ideas (observation, hypothesis, experiment, etc.) [redacted]

7. Francis Bacon – writer who wrote about [redacted]

8. Isaac Newton – scientist who discovered laws of motion and [redacted]

9. William Harvey – scientist who discovered about [redacted] and the heart as a pump
[redacted]



Heliocentric Theory

- earth revolves around sun and rotates on its axis

Planetary Motion

- planets revolve around sun in ellipses

Copernicus

Kepler

Galileo

Heliocentric Theory

- Supported Copernicus
- Catholics banned his book and put him on trial



Harvey

Newton

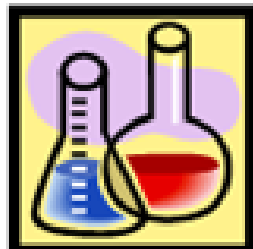
Bacon

Scientific Method

- How to hypothesize & experiment

Theory of Gravity

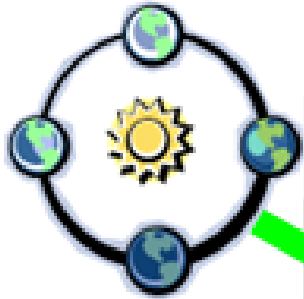
- Objects orbit in space
- calculus



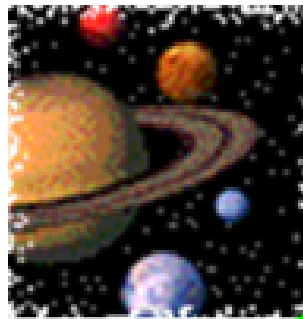
Circulation of Blood

spotlight

Copernicus



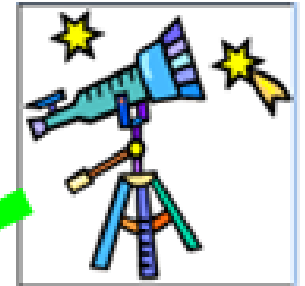
Planets =
Helio-centric
(around sun)



Kepler

Planets =
elliptical
orbits

Galileo



Planets =
around sun
with
telescope

Scientific
Revolution

Bacon



Scientific
Method

Newton

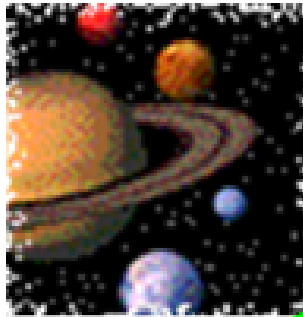


Gravity & Calculus

Harvey

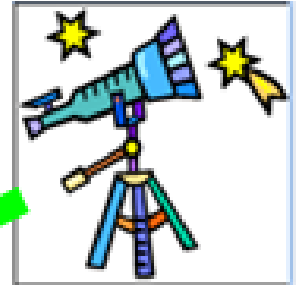


Blood
circulation

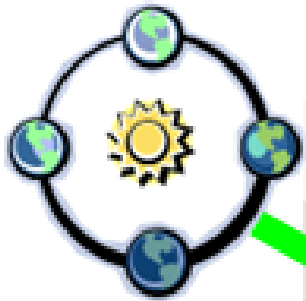


Planets =

orbits



Planets =
around sun
with



Planets =

(around sun)

Scientific
Revolution



Method

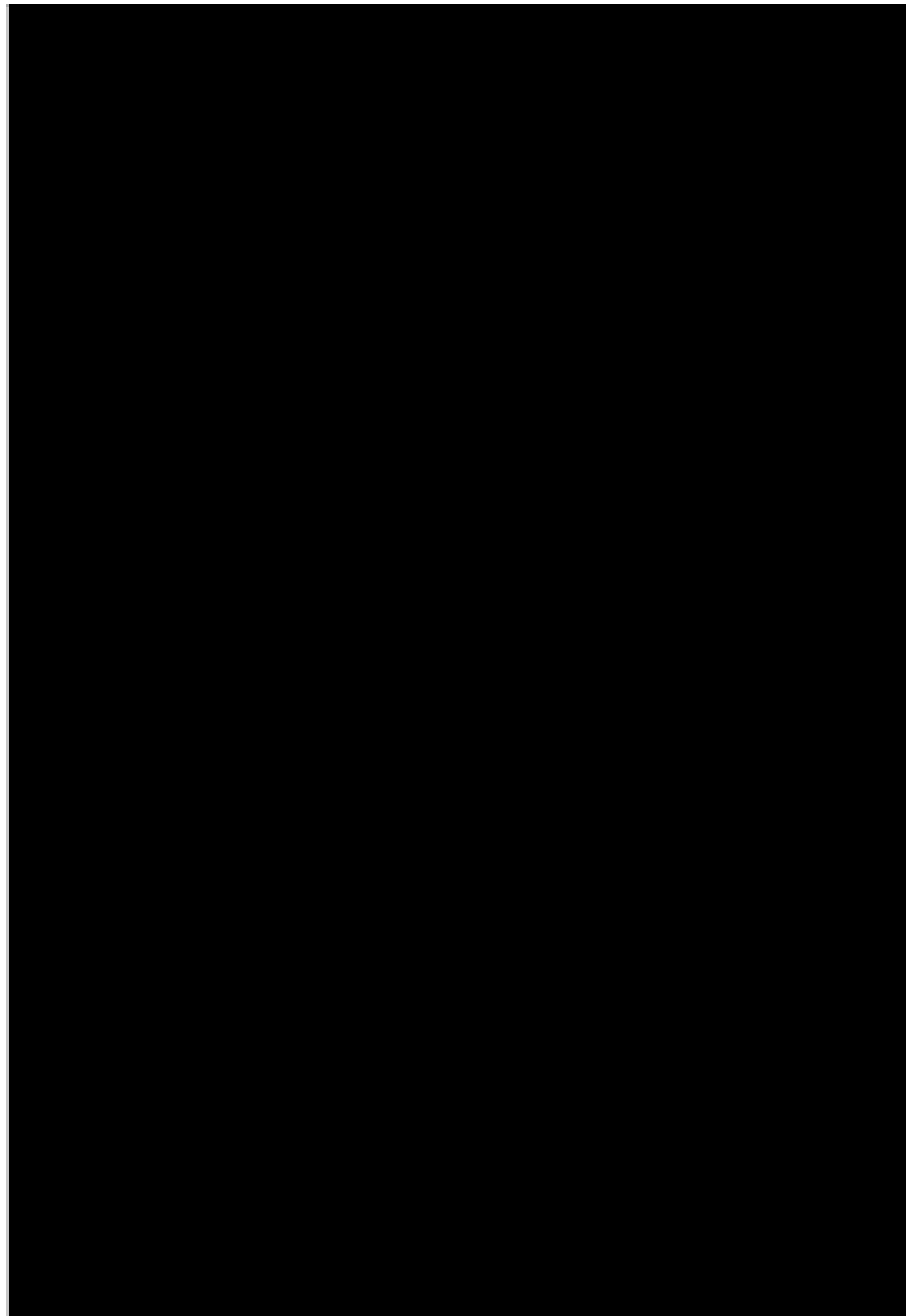


&



circulation

1. What theory did Copernicus propose?
2. Who developed calculus?
3. Who made Galileo recant his ideas on Heliocentric theory?
4. What process did Francis Bacon develop?
5. What theory did Kepler propose?
6. What theory did Newton propose?
7. Who was the Czar who built St. Petersburg?
8. What palace did Louis XIV build?



Scientific Revolution Quiz

1. What theory did Copernicus propose?

2. Who developed calculus?

3. Who made Galileo recant his ideas on Heliocentric theory?

4. What process did Francis Bacon develop?

5. What theory did Kepler propose?

6. What theory did Newton propose?

7. Who was the Czar who built St. Petersburg?

8. What palace did Louis XIV build?

1. Identify the idea that Copernicus proposed.
 - a. all matter is made up of four elements
 - b. the force of gravity prevents objects from flying off the earth
 - c. the sun is at the center of the universe
 - d. the planets move in oval paths
2. Identify the person who invented calculus.
 - a. Vesalius
 - b. Newton
 - c. Locke
 - d. Galileo
3. Galileo was forced to recant many of his ideas by the
 - a. English government
 - b. Italian government
 - c. Protestant Church
 - d. Catholic Church
4. Francis Bacon is credited with
 - a. helping to develop the scientific method
 - b. refuting the ideas of Copernicus
 - c. originating the idea of natural law
 - d. creating the first body of international law
5. Kepler used mathematical formulas to prove that
 - a. the earth is round
 - b. all matter is made up of four elements
 - c. the planets move in oval paths
 - d. the planets travel at a uniform speed
9. Isaac Newton explained the
 - a. law of universal gravitation
 - b. anatomy of the human body
 - c. chemical composition of matter
 - d. function of blood vessels

11. The heliocentric, or sun-centered, theory was proposed by

- a. Galileo Galilei
- b. Nicolaus Copernicus
- c. Francis Bacon
- d. Isaac Newton

12. Calculus was developed by

- a. Vesalius
- b. Newton
- c. Locke
- d. Galileo