

Name _____ Date _____ Period ____ Class _____

Quaestio: _____

Nunc Agenda: Analyze the map of the solar system on the board and try to correctly identify each celestial body.

A = _____ B = _____ C = _____ D = _____

E = _____ F = _____ G = _____ H = _____

THE GEOCENTRIC MODEL

- _____ philosophers like _____ and _____ believed that _____ was center of universe
- This model is called the _____ Model of the Universe
- The _____ supported the Geocentric Model based on passages from the _____, insisting that EVERYTHING revolved around the _____, which did not move.

THE HELIOCENTRIC MODEL

- 1514- Polish Astronomer Nicolaus _____ realized that the way _____ appeared to move in the sky did not make _____ with the geocentric model
- He proposed the _____ model, with the _____ at the center, to explain why the planets appeared to move as they did, and found that the mathematical calculations worked!
- Copernicus was not the first to propose the sun-centered theory:
 - _____ - _____ Astronomer Aristarchus suggested the Sun was unmoving at the center of the universe
 - _____ - _____ Astronomer Aryabhata theorized that Earth spins on its axis
 - _____ - _____ Astronomer Al-Balkhi wrote that the planets move in orbits around the sun
- Danish Astronomer Tycho _____ recorded _____ of the movements of heavenly bodies, and after his death, German astronomer Johannes _____ used Brahe's data to _____ the orbits of planets revolving around the sun. Still, many were not convinced by the evidence...

GALILEO'S DISCOVERY

- Until Italian Astronomer _____ Galilei used a _____ (new Dutch invention for sighting enemy ships) to observe four _____ in orbit around _____, which disproved the geocentric belief that everything in the heavens orbited the Earth.
- Galileo promoted the _____ Model, which the Church considered _____ (contradicting Church teaching), and claimed that the verses in the Bible that say the Earth cannot move had been _____, which violated the Council of _____ (only Church can interpret). The Roman _____ banned books by Galileo and put him on trial.