

Geo = _____

_____ = Centered

_____ in AD 140 explained this viewpoint. It was held by many for centuries.

The _____ is the center of the universe.

Everything _____ around the Earth.

Planets orbits are _____.

_____ = Sun
Centric = _____

Sun is the _____ of the _____.
Now know that sun is the center of the _____.

_____ in the solar system orbit the _____.

_____ – first proposed heliocentric view

_____ found evidence:

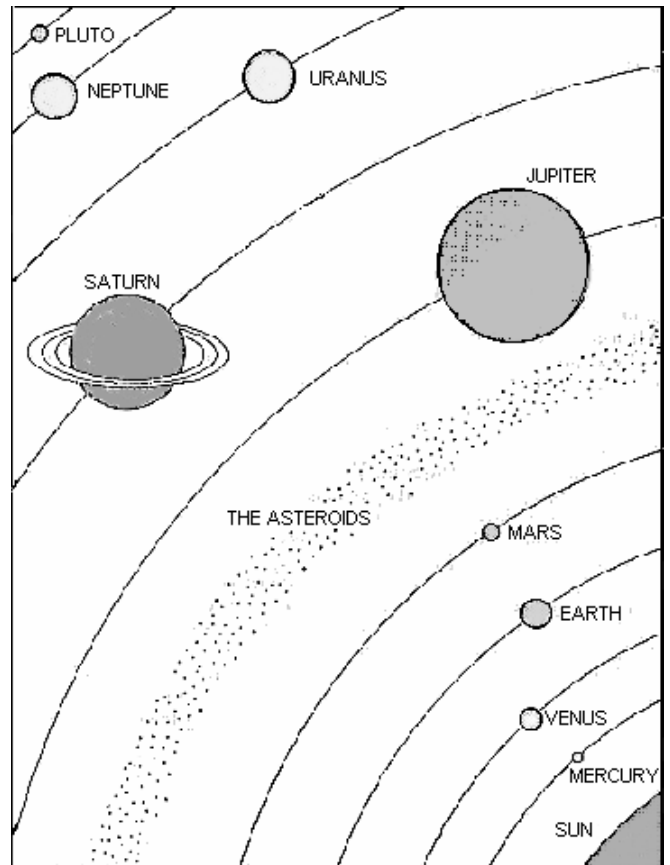
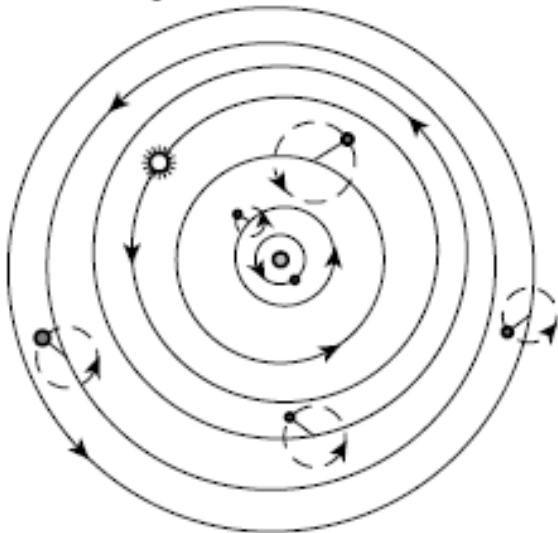
1. _____ moons orbit _____ – not Earth, so not everything orbits the Earth.
2. _____ goes through phases like the moon

_____ discovered that the planets' orbits are _____ (squashed circles)

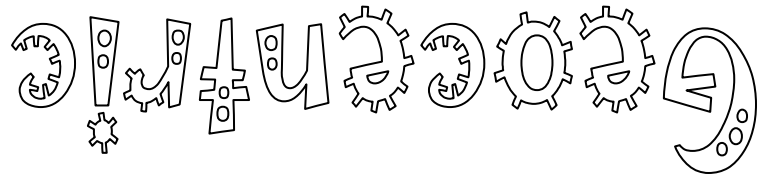
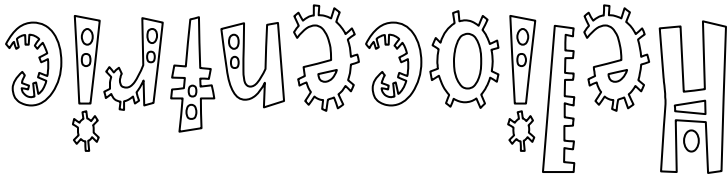
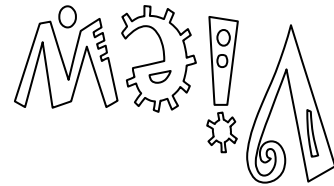
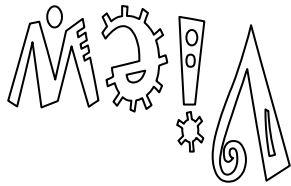
_____ explained what keeps us moving:

1. _____ – objects in motion stay in motion
2. _____ – Force of attraction between objects
3. Balance of the two forces keeps us in orbit around the sun – if no _____, we would fly away from the sun, if no _____, we would be pulled to the _____

Ptolemy's Geocentric Model



Label the following in the picture above:
Sun, Earth, Moon



Name: _____

Date: _____

Class Period: _____

History of Astronomy Questions:

1. How did Ptolemy explain the way planets seemed to move at different speeds and even backwards?
2. Who proposed in the 1500's that the planets revolve around the sun?
3. Who was the first person to use a telescope to look at the sky?
4. How did Kepler figure out that a planet's orbit is elliptical?
5. Explain how inertia and gravity keep planets in orbit around the sun.