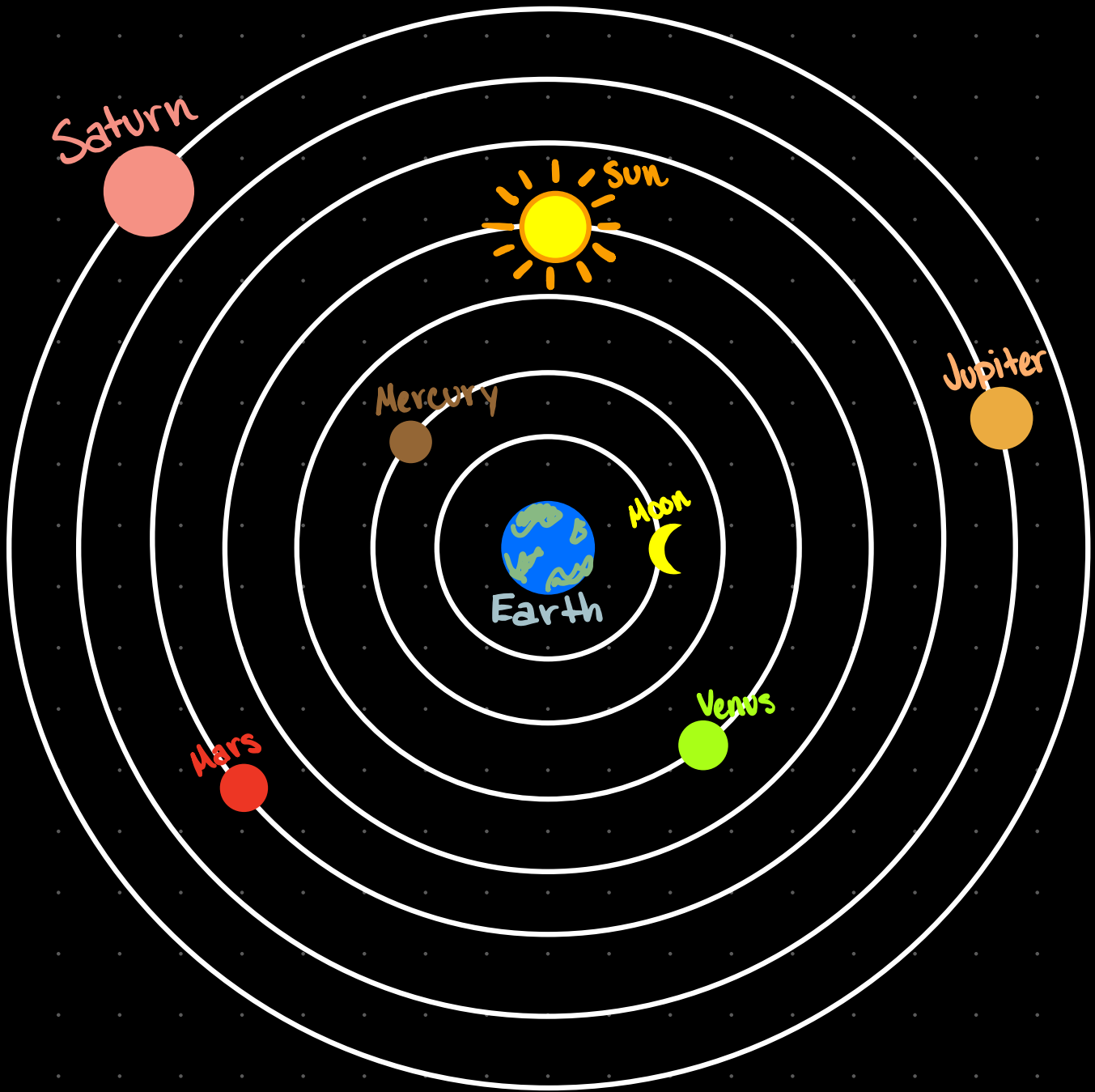
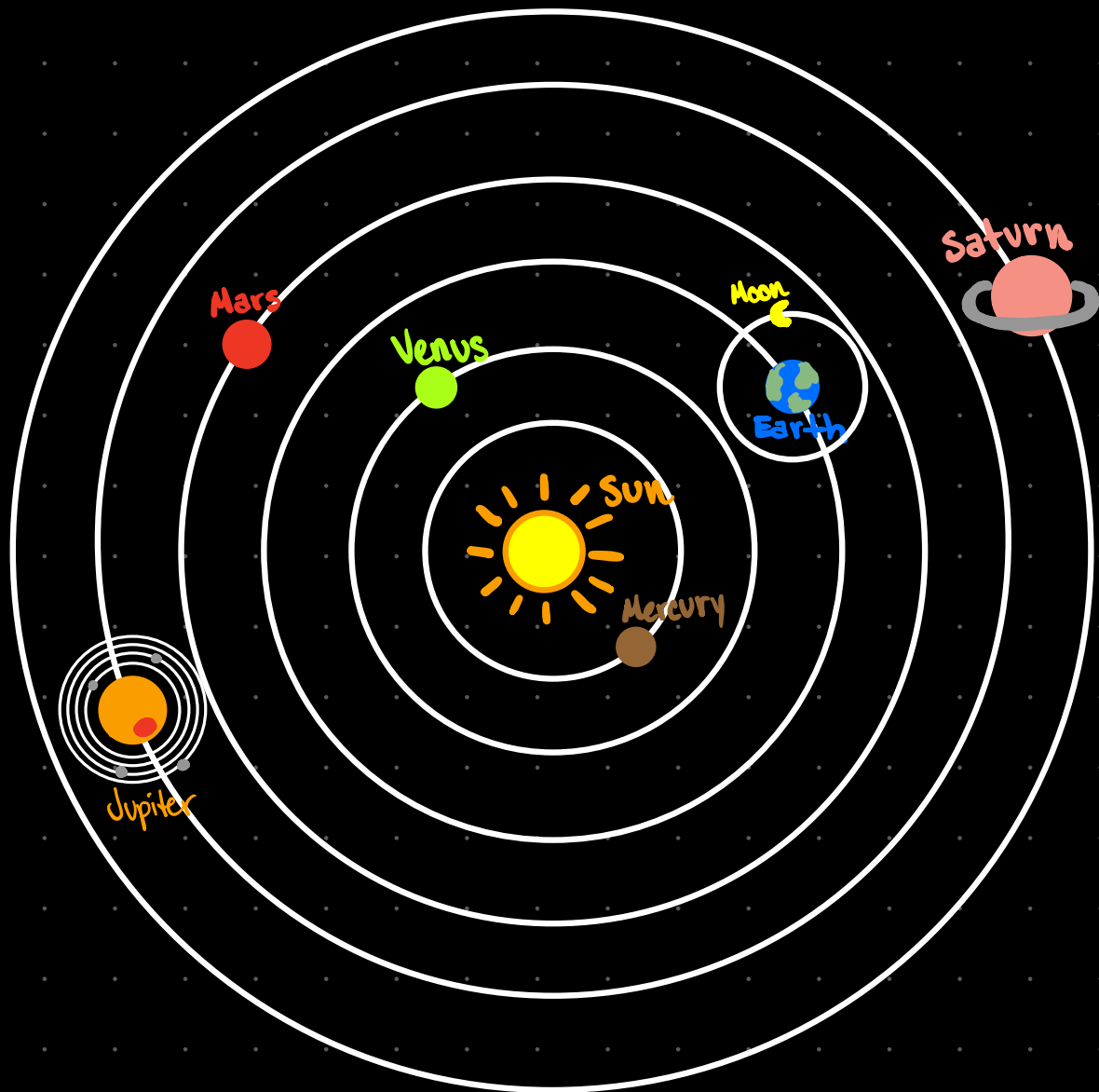


# ★ Geocentric Model :



# Heliocentric Model:



# ★ Famous Astronomers! ★

## • Aristotle (384-322 BCE)

↳ Was one of the most important and influential scientists in history!

• Geocentric Model  → Earth is the center of the universe! Everything orbits the Earth.

↳ He believed that PARALLAX proved that the Earth was the center of the universe.

★ Greek Astronomer / Scientist / Mathematician

## • Aristarchus (310-230 BCE)

↳ Was the first scientist/mathematician to try to measure the distances and sizes of the Earth and Sun!

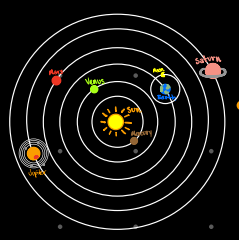
• First known scientist to demonstrate the HELIOCENTRIC Model to be true.

★ Greek Mathematician / Scientist

## • Ptolemy of Alexandria (about 100-170 CE)

↳ Ptolemy did research on books in the Library of Alexandria that dated back 800 years. He gathered everything he could on Astronomy.





(H)

of the planets.

• He saw phases of Venus (like moon phases), and he found 4 moons orbiting Jupiter (the Galilean Moons of Jupiter are Io, Callisto, Europa, and Ganymede).

• These observations could be made by all scientists with telescopes! His books, in Italian, FOREVER removed any doubts about the Heliocentric model. Galileo also mapped the moon, and made significant advancements in the understanding of gravity!

★ ITALIAN - Astronomer / Mathematician / Scientist = The man!!

★ . ★ . ★ . ★ . ★ . ★ . ★ . ★ . ★ . ★

★ Johannes Kepler (1564 - 1630 C.E.)

↳ Kepler made detailed observations of circular orbits, and made the discovery that the orbits were actually ELLIPSES!

• The Sun was at one of the focus of the ellipse.

★ GERMAN - Mathematician / Astronomer / Scientist

