Views of the Solar System/…History of Astronomy Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Scientist/Astronomer | Describe their model of the Solar System &other important facts (nicknames, etc) | Was technology used? What type? | Country of Origin | Approx. Year |
| **Aristotle** | The “**Grandfather** of **Science**”Believed in the “Geocentric Model”Thought the planets and stars moved around Earth in perfect circles | Naked eyeObserved Earth is a sphereNo telescopes! | **Greece** | **350 B.C** |
| **Aristotle** | He believed in the GEOCENTRIC MODEL (**Earth-centered**)Predicted the positions the planets are in now | Naked eyeNo telescopes! | **Greece** | **350 B.C** |
| **Copernicus** | **Founder of Modern Astronomy**”Believed in Earth’s **rotation** on its axis **once** each day AND that Earth revolves around the **Sun** once a year. This is known as the HELIOCENTRIC MODEL. | Naked eye | **Poland** | **1543 A.D.** |
| **Galileo** | Discovered Jupiter’s 4 largest moonsUsed the **telescope** to prove Copernicus was correct…the Sun is the **center** of our Solar System (**Heliocentric**)Observed that we can see phases like our moon when we look at Venus! | TELESCOPE!Made a telescope that could enlarge objects up to 20 times! WOW…that’s not much… It is less than most binoculars today! | **Italy** | **1610 A.D.** |
| **Tyco Brache** | Made careful observationsRecorded **positions** of the planetsBelieved in **Heliocentric Model** | Naked eye | **Denmark** | **Late 1500’s** |
| **Kepler** | Used **Tycho’s** data to find **elliptical** orbits of the planets (not perfect circles!)Heliocentric Model | Naked eyeMath calculationsTelescope | **Germany** | **1500 – 1600s** |

Geocentric means: - **Draw picture on back**

Heliocentric means: - **Draw picture on back**

**Geocentric Model: Heliocentric Model:**

  