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

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| 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 eye  Observed Earth is a sphere  No telescopes! | **Greece** | **350 B.C** |
| **Aristotle** | He believed in the GEOCENTRIC MODEL (**Earth-centered**)  Predicted the positions the planets are in now | Naked eye  No 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 moons  Used 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 observations  Recorded **positions** of the planets  Believed 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 eye  Math calculations  Telescope | **Germany** | **1500 – 1600s** |

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

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**Geocentric Model: Heliocentric Model:**

 