[](http://www.spacetoday.org/images/Mars/MarsRovers2003/MarsRover500x375.jpg)C:\Documents and Settings\e200601202\Local Settings\Temporary Internet Files\Content.IE5\HG3ASYWP\MCj02869250000[1].wmf

How has mankind’s need to explore led to our current view of the solar system?

**Heliocentrism**

**Geocentrism**

**Beginning to Make Sense of the Universe**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - observed 5 planets (wandering \_\_\_\_\_\_\_\_)
2. Aristotle (350 B.C)
   1. Earth did not move.
   2. \_\_\_\_\_\_\_\_\_ at the center of the solar system

**Our Growing Solar System**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - discovered in 1781
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - discovered 1801
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - discovered 1846
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - discovered 1930
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - discovered in 1992
6. Oort Cloud, dwarf planets, and Plutoids – our understanding of the solar system continues to evolve as exploration continues
7. Ptolemy(150 A.D.) – refined the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ model
   1. Epicycle – smaller circles around larger \_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_ way to explain the movement of the planets

**The Revolution Begins**

1. Copernicus (1500’s)
   1. Introduced the heliocentric (\_\_\_\_-\_\_\_\_\_\_\_\_\_\_) model of solar system.
2. Brahe (1580’s) & Kepler (1600’s)
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_ made detailed astronomical observations
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ planets move in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Galileo (1600’s)
   1. First used a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to look at the night sky
   2. Evidence for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      1. Jupiter - \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      2. Venus - \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      3. Sun - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Newton (1680’s) – explained how planets stay in orbit
   1. Inertia – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Gravity –\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Our First Views of the Universe**

1. Egyptians (3,000 B.C.)– studied the star \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_to determine when the Nile River would flood
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (3,391 B.C.)- begin measuring time and eventually create complex calendar
3. Stonehenge(2,000 B.C.) – may have connections to summer and winter \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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