

NOTE PROMPTS FOR COSMOS – EPISODE III: *The Harmony of the Worlds*

“Let me not seem to have lived in vain”

1. Kepler was the first _____ and the last
_____.

2. Astrology

Example of astrology preserved in the language:

Problems with newspaper astrology?

Astrology twin problem:

Could Mars have a larger gravitational pull than the obstetrician? Would it have made a difference?

3. How is our world a Goldilocks of predictability?

4. Are star patterns universal or influenced by culture? Defend your answer with examples.

Stars rise in the _____ and set in the _____.

5. How does the Anasazi (Ancestral Puebloan) Great Kiva at Chaco Canyon reflect knowledge of the sun and the moon?

(Aerial view of Chaco Canyon is in NW New Mexico; the Sun Dagger was on Fajada Butte—it no longer functions as it did when it was discovered.)

6. Who embraced the Copernican model of the heavens: The Catholic Church or the Protestant Church (Martin Luther)?

7. Young Kepler decided that “Geometry is...

Superstition is a natural refuge for people who...

8. To Kepler, there could be only six planets because there were only five

Kepler couldn't get his model to work, so he decided __?__ was wrong.

9. Notes about Tycho and Kepler (free form)

10. Using Tycho's data, Kepler eventually (accepted / abandoned) circular orbits.

Kepler's first law of planetary motion is

Kepler's second law of planetary motion is

Kepler's third law of planetary motion (The Law of Harmony) is

11. During the Thirty Years' War, plowshares were beaten into

Kepler's mother was convicted as a _____

In Kepler's science fiction novel, he foresaw...

In the end, Kepler advanced astronomy because he preferred

A. the hard truth of observation.

B. his most dearly held personal beliefs.