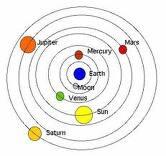
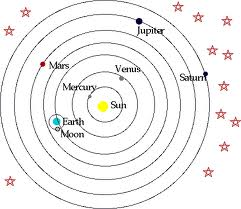
Name:

Class:

**Astronomy Beginnings**

|  |  |
| --- | --- |
| \_\_\_\_ 1. Proposed that the sun was the center of the solar system because it was a simpler, purer model. Had no real evidence.  \_\_\_\_ 2. A philosopher that proposed geocentric theory model based on observations that Earth didn’t move and sun did. Did not test.  \_\_\_\_ 3. Great astronomer that took detailed records of precise planetary locations over many years….lost his nose in a duel!  \_\_\_\_ 4. Proposed epicycles (incorrectly) to account for observed retrograde motion of the planets.  \_\_\_\_ 5. Analyzed Mars data to correctly conclude the shape and speed of the planet orbits. Formed 3 laws.  \_\_\_\_ 6. First to seek out observational data to support conclusion of the sun centered model. Found that Jupiter has moons and therefore not all object revolve around the Earth. | A. Galileo  B. Aristotle  C. Kepler  D. Copernicus  E. Ptolomy  F. Brahe |

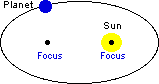
*Look at each model of the solar system below.*

|  |  |
| --- | --- |
| 7. Name of Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  8. Person who  proposed the model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  9. Evidence for the  model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 10. Name of Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  11. Person who  proposed the model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  12. Evidence for the  model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| 13. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the term Greeks gave to wandering ‘stars’.  14. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the study of the origin of the universe.  15. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the fake science where people use star positions to predict what will happen in their lives.  16. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the study of celestial objects and their formation, motion etc.  17. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the backwards movement of planets during their orbit (an optical illusion).    18. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the shape of planetary orbits in Kepler’s first law.  19. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the average distance between Earth and the sun.  20. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ The amount of time it takes ANY planet to go around the sun once.  21. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the amount of ovalness of a planet orbit.  22. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the stone calendar in Europe that marked the position of the sun throughout the year.  23. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the circular loops of planets on their orbits as proposed by Ptolemy to explain retrograde motion.  24. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ evidence seen by Galileo that proved Heliocentricity. | 1 Astronomical Unit (AU)  Astronomy  Astrology  Cosmology  Eccentricity  Epicycles  Ellipse  Period (yrs)  Planet  Retrograde motion  Stonehenge  Venus’ phases |

A

*Use the letters from the diagram.*

C

B

25. \_\_\_\_\_\_\_\_\_\_\_ The focal point occupied by empty space.

26. \_\_\_\_\_\_\_\_\_\_\_ The location where the planet experiences the most gravity.

D

Planet

27. \_\_\_\_\_\_\_\_\_\_\_ The location where the planet travels the slowest.

28. \_\_\_\_\_\_\_\_\_\_\_The focal point where there is a mass