

THE MECHANICAL UNIVERSE
Video 21 - Kepler's Three Laws

Name: _____
Class: _____

Note: Johannes Kepler is Professor Brooks' favorite scientist!

1. Describe the Tyconic system:
2. What length is always a constant for an ellipse?
3. What does "eccentricity" mean?
4. What is the Latin word for "fireplace?"
5. What scientist was known as the "Wandering Mathematician?"
6. Whose astronomical data was essential to Kepler?
7. What were some of the problems presented to Kepler by the Copernican solar system?
8. How many pages did Kepler's calculations total?
9. Describe the position of Mars when it is in "opposition?"
10. A _____ is a conic section with eccentricity equal to 1.
11. What career did Kepler turn to during the war to support his family?
12. What determines the value of a scientific idea?