

Planetary Orbit Simulator – Student Guide

Background Material

Answer the following questions after reviewing the “Kepler’s Laws and Planetary Motion” and “Newton and Planetary Motion” background pages.

Question 1: Draw a line connecting each law on the left with a description of it on the right.

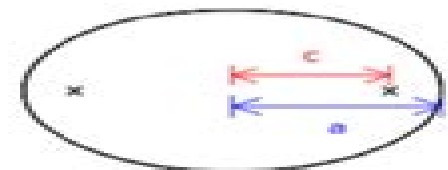
Kepler’s 1 st Law	only a force acting on an object can change its motion
Kepler’s 2 nd Law	planets move faster when close to the sun
Kepler’s 3 rd Law	planets orbit the sun in elliptical paths
Newton’s 1 st Law	planets with large orbits take a long time to complete an orbit

Question 2: When written as $P^2 = a^3$ Kepler’s 3rd Law (with P in years and a in AU) is applicable to ...

- a) any object orbiting our sun.
- b) any object orbiting any star.
- c) any object orbiting any other object.

Question 3: The ellipse to the right has an eccentricity of about ...

- a) 0.25
- b) 0.5
- c) 0.75
- d) 0.9



Question 4: For a planet in an elliptical orbit to “sweep out equal areas in equal amounts of time” it must ...

- a) move slowest when near the sun.
- b) move fastest when near the sun.
- c) move at the same speed at all times.
- d) have a perfectly circular orbit.

Planetary Orbit Simulator Student Guide

Yijin Wang



Planetary Orbit Simulator Student Guide:

Decoding **Planetary Orbit Simulator Student Guide**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Planetary Orbit Simulator Student Guide**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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