

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.

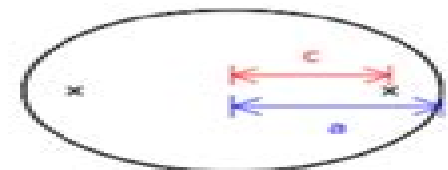
Kepler’s 1 st Law	only a force acting on an object can change its motion
Kepler’s 2 nd Law	planets move faster when close to the sun
Kepler’s 3 rd Law	planets orbit the sun in elliptical paths
Newton’s 1 st Law	planets with large orbits take a long time to complete an orbit

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

Michael Hoelscher



Planetary Orbit Simulator Student Guide:

Monthly Catalogue, United States Public Documents ,1983 Learning Directory ,1970 **Catalogue of Publications Issued by the Government of the United States** United States. Superintendent of Documents,1983-10 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index The Songs of Symmerid Three Marise Morland,2021-07-06 How did Laura a music student from an English village find herself many light years from Earth alone on the stage of a meticulously copied Ancient Greek amphitheatre This is her story As she has the only singing voice on the planet Celestra she isn't worried about pleasing her audience What concerns her is the future of the people who randomly chose her technologically advanced yet disturbingly naive with a dwindling population half forgotten history and an ambitious music hating First Citizen No one's asked Laura to do anything other than sing No one expects her to challenge Celestra's corrupt leadership But she's going to **Scientific and Technical Aerospace Reports** ,1991

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