

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.

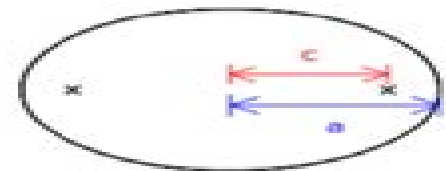
Kepler’s 1 st Law	only a force acting on an object can change its motion
Kepler’s 2 nd Law	planets move faster when close to the sun
Kepler’s 3 rd Law	planets orbit the sun in elliptical paths
Newton’s 1 st Law	planets with large orbits take a long time to complete an orbit

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.

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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 naïve 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 **The Software**
Encyclopedia, 1988 **Microtimes**, 1995-11 **Space Directory** Jane's Information Group, Incorporated, 2001-07-30
Aerospace Resources for Science and Technology Education Donald Maley, Kenneth L. Smith, 1991 **Electronics**, 1958
June issues 1941-44 and Nov issue 1945 include a buyers guide section *Aerospace Medicine and Biology*, 1992 A
selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific
and technical information system and announced in Scientific and technical aerospace reports STAR and International
aerospace abstracts IAA **Government Reports Announcements & Index**, 1995 **PC World**, 1992 *Government*
reports annual index, 199? *PC/Computing*, 1992-04 **Cumulated Index of the Christian Science Monitor**, 1971
Nerva Injection and Cooldown Guidance for Planetary Orbit Franklin Howard Moss, 1972 Planet Paths:
Studying Planetary Orbital Paths, Montana State University Bozeman in partnership with NASA presents a collection of
lesson plans entitled Planet Paths Studying Planetary Orbital Paths as a part of the Center for Educational Resources CERES
Project The activities appropriate for middle school students teach students about planetary orbit travel The students view
Web sites demonstrating orbital motion and complete modeling activities The university outlines the learner outcomes and
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