

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.

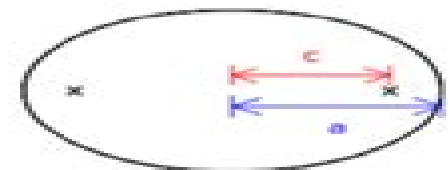
Kepler’s 1 st Law	only a force acting on an object can change its motion
Kepler’s 2 nd Law	planets move faster when close to the sun
Kepler’s 3 rd Law	planets orbit the sun in elliptical paths
Newton’s 1 st Law	planets with large orbits take a long time to complete an orbit

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

Hussin A.Rothana



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 Symerid 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 na ve 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

Planetary Orbit Simulator Student Guide: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Planetary Orbit Simulator Student Guide : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

<https://crm.avenza.com/results/browse/HomePages/rs%20aggarwal%20class%201solutions.pdf>

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