

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 Answers Answers

J Rink



Planetary Orbit Simulator Student Guide Answers Answers:

Our Solar System Karen Kwitter, Steven Souza, 1999 Activities covered include The scale of the solar system How big are the planets How far apart are the planets The shape of planetary orbits Retrograde motion The planets move backwards Phases of the moon plus 13 more intriguing activities See other Hands On Science Series titles 13 Book set **Official Gazette of the United States Patent Office** United States. Patent Office, 1970-11 **Scientific and Technical Aerospace Reports**, 1995 **Limited Scientific and Technical Aerospace Reports**, 1972 *Monthly Catalog of United States Government Publications*, 1966 NASA Scientific and Technical Publications, 1990 **When Biospheres Collide** Michael Meltzer, 2010 **Applied Mechanics Reviews**, 1964 *Proceedings*, 1965 Monthly Catalogue, United States Public Documents, 1995 International Aerospace Abstracts, 1999 *Congressional Record* United States. Congress, 1990-03 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 **The IAAE Journal**, 1961 **The Software Encyclopedia 2000** Bowker Editorial Staff, 2000-05 **Instructor**, 2000 The Finding Guide to AIAA Meeting Papers American Institute of Aeronautics and Astronautics. Technical Information Service, 1996 *Conference Abstracts and Applications*, 2002 *Selected Rand Abstracts* Rand Corporation, 1963 Includes Reports R series Rand Memorandums RM series papers P series and Books Illustrated Weekly of Pakistan, 1964-05 **PC World**, 1992

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Industrial DC Motor Using ... by AAA Emhemed · 2012 · Cited by 61 — The main objective of this paper illustrates how the speed of the DC motor can be controlled using different controllers. The simulation results demonstrate ... Stability and performance evaluation of the speed control ... by SA Salman · 2021 · Cited by 3 — This paper presents the design of a state-feedback control to evaluate the performance of the speed control of DC motor for different applications. The. Precision Speed Control of A DC Motor Using Fuzzy Logic ... Precision Speed Control of A DC Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEDGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ... How To Do Motivational Interviewing: A Guidebook In this concise book, you will learn how to do Motivational Interviewing (MI), the evidence-based, client-centered counseling approach that has demonstrated ... How to Do Motivational Interviewing: A Guidebook In this concise book, you will learn how to do Motivational Interviewing (MI), the evidence-based, client-centered counseling approach that has demonstrated ... How To Do Motivational Interviewing: A guidebook for ... May 30, 2012 — In this concise book, the author teaches you the mindset and methodologies of Motivational Interviewing and how to use the simple but ... How to Do Motivational Interviewing by Bill Matulich In this concise book, you will learn how to do Motivational Interviewing (MI), the evidence-based, client-centered counseling approach that has demonstrated ... A brief guide to MOTIVATIONAL INTERVIEWING by G Latchford · 2010 · Cited by 8 — Motivational interviewing is an intervention designed for situations in which a patient needs to make a behaviour change but is unsure about it, sometimes to ... How To Do Motivational Interviewing: A Guidebook In this concise book, you will learn how to do Motivational Interviewing (MI), the evidence-based, client-centered counseling approach that has demonstrated ... Ebook This concise eBook is designed to provide the information you need to help your clients change their behavior. You'll learn how to prepare for a session and ... How to Do Motivational Interviewing: A Guidebook ... In this concise book, you will learn how to do Motivational Interviewing (MI), the evidence-based, client-centered counseling approach that has demonstrated ... Motivational Interviewing Guide Table of Contents. 2. What is Motivational Interviewing? 3. Motivational Interviewing Outline. 4. Opening Up the Conversation. 5. Reflective Listening. How To Do Motivational Interviewing: A guidebook for ... In this concise book, you will learn how do do Motivational Interviewing (MI), the evidence-based counseling approach that has been proven to be effective ...