

Gravity and Orbits Lab – **LAB ACTIVITY SHEET**

Learning Objectives- You will be able to:

- Draw motion of planets, Moons and satellites.
- Draw diagrams to show how gravity is the force that controls the motion of our solar system.
- Identify the variables that affect the strength of the gravity.
- Predict how motion would change if gravity was stronger or weaker.

Part 1: Understanding motion

- 1.** Open the *Gravity and Orbits* simulation. <http://tinyurl.com/PHETorbit>

Take a few minutes to **PLAY & explore** how the Earth, Moon, and the Space Station move. Talk about what you find with your group.

GROUP DISCUSSION: What controls have you found? What do they do?



- 2.** Compare the motion of the Earth moving around the Sun with the Moon moving around the Earth.

Earth moves around the Sun

Your Picture

Your Description

Moon moves around the Earth

Your Picture

Your Description

a. What are some things you find that are **similar** about these motions?

b. What are some things you find that are **different** about these motions?

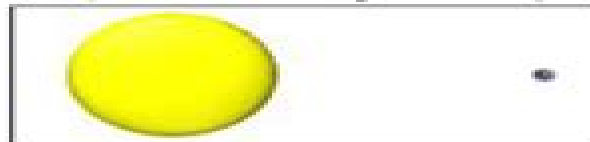
- 3.** Based on your observations, how would you define the word "orbit"? Cite evidence!

Part 2: Understanding Gravity For the Sun and Earth system:

- 4.** Draw/LABEL the Sun's gravitational pull on the Earth



- Draw/LABEL the Earth's gravitational pull on the Sun



Gravity And Orbits Lab Activity Answers

Xiang Xie



Gravity And Orbits Lab Activity Answers:

Space Activity Lab DK,2023-08-22 Uncover the mysteries of space with 25 creative projects and stargazing activities that are out of this world Discover the wonders of our awe inspiring universe If you stare at the stars and wonder what s out there and enjoy practical hands on projects this is the book for you Each of the super fun make and do projects in this book comes with simple step by step photographs and instructions that will inspire your imagination and reveal some of the secrets of space Perfect for kids who are interested in STEM science technology engineering and math Space Activity Lab features projects that explore the solar system to asteroids and from the Milky Way to moon buggies You ll combine astronomy with art and craft by launching your own rocket building a moon lander to learn how astronauts touch down safely on the moon s surface making a pinhole camera to observe a solar eclipse designing your own orrery to understand how planets orbit the sun and creating a cardboard model to explore the phases of the moon And for when darkness falls there s a star finder section that shows you how to spot incredible constellations in the night sky from The Big Dipper to Orion Throughout the book information boxes full of fascinating facts and panel stories explain the science Space Activity Lab is the perfect package for creative kids who are interested in exploring the great mysteries of the night sky infinity and beyond

Scientific and Technical Aerospace Reports ,1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Take-Home Physics: 65 High-Impact, Low-Cost Labs** Michael Horton,2009-05-30

China Satellite Navigation Conference (CSNC) 2017 Proceedings: Volume I Jiadong Sun,Jingnan Liu,Yuanxi Yang,Shiwei Fan,Wenxian Yu,2017-05-02 These proceedings present selected research papers from CSNC2017 held during 23th 25th May in Shanghai China The theme of CSNC2017 is Positioning Connecting All These papers discuss the technologies and applications of the Global Navigation Satellite System GNSS and the latest progress made in the China BeiDou System BDS especially They are divided into 12 topics to match the corresponding sessions in CSNC2017 which broadly covered key topics in GNSS Readers can learn about the BDS and keep abreast of the latest advances in GNSS techniques and applications

Exploring Physical Science in the Laboratory John T. Salinas ,2019-02-01 This full color manual is designed to satisfy the content needs of either a one or two semester introduction to physical science course populated by nonmajors It provides students with the opportunity to explore and make sense of the world around them to develop their skills and knowledge and to learn to think like scientists The material is written in an accessible way providing clearly written procedures a wide variety of exercises from which instructors can choose and real world examples that keep the content engaging Exploring Physical Science in the Laboratory guides students through the mysteries of the observable world and helps them develop a clear understanding of challenging concepts **McDougal Littell Science** McDougal Littell

Incorporated,2005 *Government Reports Announcements & Index* ,1988 Literature 1969, Part 2 Siegfried

Böhme, Walter Fricke, Ulrich Güntzel-Lingner, Frieda Henn, Dietlinde Krahn, Gert Zech, 2012-12-06 Astronomy and Astrophysics Abstracts which appears in semi annual volumes is devoted to the recording summarizing and indexing of astronomical publications throughout the world It aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly issued abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 2 contains literature published in 1969 and received before March 15 1970 some older literature which was received late and which is not recorded in Volume 1 is also included The authors of papers who have sent us abstracts on request have effectively contributed to the success of our service We should like to express our gratitude to them We acknowledge with thanks contributions to this volume by Dr J Bou a who surveyed journals and publications in Czech language and supplied us with abstracts in English by Dr B Onderlicka Brno for providing English abstracts of Russian papers and by the Commonwealth Scientific and Industrial Research Organization CSIRO Sydney for providing titles and abstracts of papers on radio astronomy

Commerce, Justice, Science, and Related Agencies Appropriations for 2017: Justification of the budget estimates United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2016

Computer Program Abstracts, 1971

Physics Art Hobson, 1999 Emphasizes modern physics in a philosophical cultural as well as scientific context Atoms and the structure of matter Speed velocity and acceleration The connections between force mass and acceleration Energy efficiency and electric power The second law of thermodynamics Entropy The automobile and the steam electric generating plant General relativity and cosmology the large scale geometry density and fate of the universe along with the inflationary theory's predictions and the search for the possibly missing mass in the universe The search for extraterrestrial intelligence Quantum theory the electron double slit experiment and the evidence for Bell's interconnectedness principle

Scientifica David Sang, Peter Ellis, Derek McMonagle, 2004 Bring your science lessons to life with Scientifica Providing just the right proportion of reading versus doing these engaging resources are differentiated to support and challenge pupils of varying abilities

To The Stars Umberto Cavallaro, 2023-05-23 This book is the second edition of *Women Spacefarers* and tells the fascinating stories of the valiant women who broke down barriers to join the space program Beginning with the orbital flight of USSR cosmonaut Valentina Tereshkova in 1963 and continuing to the present day it covers the many female players who have had a central role in the greatest adventure of our time The book includes the biographies of and in some cases interviews with the brave women who have flown in space For each entry the author contextualizes the spacefarer's accomplishments in light of the political and cultural climate of the time The second edition features fifteen additional profiles on figures such as Jessica Meir and Wally Funk new interview material a new

thematic structure based on each woman's science specialty and role an expanded glossary and more The result is a gallery of pioneering women who reached for the stars women who with exceptional skill hard work and dedication reached impressive careers as accomplished pilots researchers engineers and managers and left a legacy of strength for all aspiring spacefarers **Applied Mechanics Reviews** ,1996 *The Software Encyclopedia* ,1997 **Large Space Structures & Systems in the Space Station Era** ,1991 **Aerospace Engineering** ,1985-07 Space Science: Teacher's ed ,2005
 Government Reports Announcements & Index ,1989 **Senior Scholastic** ,1957 Vols for Sept 1968 include Scholastic teacher

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Kicking—Towards a Practical Theology of Illness ... In His Hands is perhaps an invitation to prayer and action while Alive and Kicking is an invitation to research, prayer and action. The former says a great deal ... In His Hands: Towards a Theology of Healing-David Dale Item number. 332742571942 ; Book Title. In His Hands: Towards a Theology of Healing-David Dale ; ISBN. 9780232518511 ; Accurate description. 4.9 ; Reasonable ... Towards a Theology of Healing: (2) Healing and Incarnation Jan 10, 2014 — The healing ministry is not all about consoling the neurotic and encouraging the arthritic, just sometimes the hand of the Lord is revealed and ... Gift or a Given?: A Theology of Healing for the 21st Century He comes to the conclusion that the usual focus of the church on healing as a charismatic gift from an interventionist God is a distraction from the presence of ... Introduction to Human Factors and Ergonomics for Engineers ... human subject experiments. We expect this book to be of use to both students of human factors, who are its primary audience, as well as practitioners. Introduction to Human Factors and Ergonomics for Engineers It addresses the topics of human factors, work measurement and methods improvement, and product design an approachable style. The common thread throughout the ... Introduction to Human Factors and Ergonomics for Engineers by MR Lehto · 2012 · Cited by 302 — Introduction to Human Factors and Ergonomics for Engineers. By Mark R. Lehto, Steven J. Landry. Edition 2nd Edition. First Published 2012. eBook ... Introduction to Human Factors and Ergonomics for Engineers It addresses the topics of human factors, work measurement and methods improvement, and product design an approachable style. The common thread throughout the ... Introduction to Human Factors and Ergonomics ... It presents these topics with a practical, applied orientation suitable for engineering undergraduate students. See What's New in the Second Edition: Revised ... Introduction to Human Factors and Ergonomics for Engineers Covering physical and cognitive ergonomics, the book is an excellent source for valuable information on safe, effective, enjoyable, and productive design of ... Introduction to Human Factors and Ergonomics for Engineers Emphasizing customer oriented design and operation, Introduction to Human Factors and Ergonomics for Engineers explores the behavioral, physical, ... Introduction to Human Factors and Ergonomics for ... It presents these topics with a practical, applied orientation suitable for engineering undergraduate students. See What's New in the Second Edition: ... More. Introduction to Human Factors and Ergonomics for ... by M Lehto · 2022 · Cited by 302 — Dive into the research topics of 'Introduction to Human Factors and Ergonomics for Engineers, Second Edition'. Together they form a unique ... Introduction to Human Factors and Ergonomics for ... Oct 26, 2012 — It addresses the topics of human factors, work measurement and methods improvement, and product design an approachable style. The common thread ...