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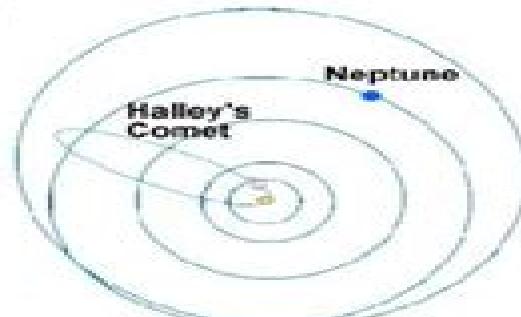
Student Exploration: Orbital Motion – Kepler's Laws

Vocabulary: astronomical unit, eccentricity, ellipse, force, gravity, Kepler's first law, Kepler's second law, Kepler's third law, orbit, orbital radius, period, vector, velocity

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. The **orbit** of Halley's Comet, shown at right, has an oval shape. In which part of its orbit do you think Halley's Comet travels fastest? Slowest? Mark these points on the diagram at right.
2. How might a collision between Neptune and Halley's Comet affect Neptune's orbit?

It would have a small effect but not a lot because neptune is bigger than halley's comet.



Gizmo Warm-up

The path of each planet around the Sun is determined by two factors: its current **velocity** (speed and direction) and the **force of gravity** on the planet. You can manipulate both of these factors as you investigate planetary orbits in the *Orbital Motion – Kepler's Laws* Gizmo™.

On the CONTROLS pane of the Gizmo, turn on **Show trails** and check that **Show vectors** is on. Click **Play** (▶).



1. What is the shape of the planet's orbit? an oval
2. Watch the orbit over time. Does the orbit ever change, or is it stable? no it is stable
3. Click **Reset** (⟲). Drag the tip of the purple arrow to shorten it and reduce the planet's initial velocity. Click **Play**. How does this affect the shape of the orbit?
the orbit gets smaller and more flattened

Orbital Motion Exploration Guide Answers

**United States. Federal Energy
Administration**

Orbital Motion Exploration Guide Answers:

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

Early Explorations In Science Johnston, Jane,2005-07-01 Reviewers comments on the first edition Jane Johnston communicates a sense of effervescent enthusiasm for teaching and science and her treatment is comprehensive TES The ideas and recommendations based on considerable classroom experience make this book a valuable aid to students and reflective early years practitioners Primary Science Review At last A serious attempt to explore the scientific potential of infant and pre school children The author explains how scientific skills can be developed at an early stage stimulating the natural inquisitive streak in children This book will start you thinking about science in a much more positive light Child Education This accessible and practical book supports good scientific practice in the early years It helps practitioners to be creative providers and shows them how to develop awe and wonder of the world in the children they teach The book highlights the importance of a motivating learning environment and skilled interaction with well trained adults In addition fundamental issues are explored such as the range nature and philosophical underpinning of early years experiences and the development of emergent scientific skills understandings and attitudes New features for this edition include An extended age range encompassing early learning from 0 8 Updated material for the Foundation Stage Curriculum for 3 5 year olds and the National Curriculum 2000 for 5 8 year olds A new chapter focusing on conceptual understanding and thinking skills in the early years An emphasis on the importance of informal learning and play in early development The book introduces and discusses new research and thinking in early years and science education throughout making it relevant for current practice This is an indispensable resource for all trainee and practising primary school teachers and early years practitioners

Teacher's Manual and Resource Guide for Exploring the Sciences Herbert Drapkin,1964 **Hubble Vision** Carolyn Collins Petersen,John C. Brandt,1998-10-28 Discusses how the findings from the Hubble Space Telescope have affected the way scientists study the universe includes photographs that were taken by the Hubble Telescope of the planets distant galaxies black holes and the Shoemaker Levy comet

Exploring Physics Rogers W. Redding,Stuart Kenter,1984 **Bowker's Complete Video Directory** ,2000 **The Solar System** David G. Fisher,Richard R. Erickson,2010 Covers 180 features of Earth s solar system including every major body and phenomenon offering detailed basic information on all major aspects

Exploring the Universe W. M. Protheroe,E. R. Capriotti,Gerald H. Newsom,1981 **The Software**

Encyclopedia 2001 ,2001 **A Guide to the Literature of Astronomy** Robert A. Seal,1977 *Instructor's Manual to Accompany The Dynamic Universe: an Introduction to Astronomy, Third Edition, Theodore P. Snow* Stephen J. Shawl,1988

Exploring the Solar System J. Kelly Beatty,2001 From time immemorial we have gazed upward in wonder pondering the mysteries of the heavens and seeking to unravel them From the ancient Greeks and Romans who named the planets for their gods to the scientists of today who probe the farthest reaches of the solar system we have always been fascinated by our corner of the Milky Way And this authoritative lavishly illustrated volume shows us how astonishing and varied it is A chronicle of cosmic history as well as an account of human discovery this book captures the awe and drama of distant worlds we are only beginning to understand It is a book that encompasses literally everything under the Sun From cover *Project Independence Blueprint* United States. Federal Energy Administration,1974 What is Project Independence The sources and uses of energy in the United States have changed dramatically in the last several decades As a result in just one generation we have shifted from a position of domestic energy abundance to a substantial and continually growing reliance on foreign energy sources Project Independence is a wide ranging program to evaluate this growing dependence on foreign sources of energy and to develop positive programs to reduce our vulnerability to future oil cut offs and price increases **Exploring the Secrets of Space** Israel Monroe Levitt,Dandridge M. Cole,1963 **Encyclopedia International** ,1980 **1973 IEEE Intercon Technical Program Papers** ,1973 **Project Independence** United States. Federal Energy Administration,1975 **The Planetary Report** ,1994 Exploring the Dynamic Universe Theodore Peck Snow,1988

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