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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?

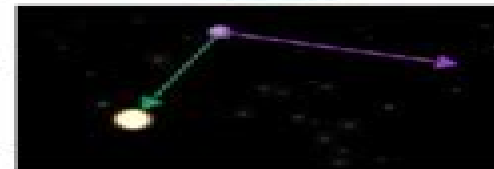
It would have a small effect but not alot because neptune is bigger than halleys comet.



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

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