

Student Exploration: Solar System (ANSWER KEY)

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Student Exploration: Solar System

Vocabulary: atmosphere, ellipse, gas giant, gravity, inner planet, orbit, outer planet, planet, rocky planet, solar system, year

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

Name all the **planets** you can think of.

What object is at the center of the **solar system**?

What force keeps the planets from flying out of the solar system?

Gizmo Warm-up

On the Solar System Gizmo, check that the **Orbit** tab is selected. At first you can only see the four **inner planets**. The distances of the planets to the Sun are to scale, but sizes are not.

Move the cursor over each planet to learn its name. What are the four inner planets?

These planets are called **rocky planets** because their surfaces are rocky.

Click the “–” button (upper right) three times to zoom out. What are the names of the four **outer planets**?

These planets are called **gas giants** because they are essentially huge balls of gas.

Before 2006, while Pluto was still considered a planet, people used this saying to remember the nine planet names: “My very excellent mother just sent us nine pizzas.”

Come up with a new sentence to help remember the eight planet names, in order.

Activity A:	Get the Gizmo ready:	
Planetary orbits	• Check that the Orbit tab is still selected. • Click the “o” button to reset the zoom level. • Be sure that the Speed is set to Slow.	

Touring Our Solar System Answer Key

**Jeffrey Bennett, Seth Shostak, Nicholas
Schneider, Meredith MacGregor**



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Learning About Our Solar System, Grades 4 - 8 Routh,2009-09-02 Connect students in grades 4 and up with science using Learning about Our Solar System This 48 page book takes students on a journey through the solar system and its fascinating mysteries Topics include the sun inner and outer planets minor planets comets stars black holes the galaxy in which we live and beyond The book also includes reinforcement activities a research project a vocabulary study sheet a crossword puzzle a unit test a bibliography and answer keys

Comprehension and Critical Thinking Grade 5 Jamey Acosta,2007-10-23 Build Grade 5 students comprehension and critical thinking skills and prepare them for standardized tests with high interest informational text from TIME For Kids

GED Science For Dummies Murray Shukyn,Achim K. Krull,2015-09-23 Passing the GED Science Test has never been easier Does the thought of taking the GED Science Test make you sweat Fear not With the help of GED Science Test For Dummies you ll get up to speed on the new structure and computer based format of the GED and gain the confidence and know how to pass the Science Test like a pro Packed with helpful guidance and instruction this hands on test prep guide covers the concepts covered onthe GED Science Test and gives you ample practice opportunities to assess your understanding of Life Science Physical Science and Earth and Space Science Designed to test your understanding of the fundamentals of science reasoning and the ability to apply those fundamentals in realistic situations the GED Science Test can be tough for the uninitiated Luckily this fun and accessible guide breaks down each section of the exam into easily digestible parts making everything you ll encounter on exam day feel like a breeze Inside you ll find methods to sharpen your science vocabulary and data analysis skills tips on how to approach GED Science Test question types and formats practice questions and study exercises and a full length practice test to help you pinpoint where you need more study help Presents reviews of the GED Science test question types and basic computer skills Offers practice questions to assess your knowledge of each subject area Includes one full length GED Science practice test Provides scoring guidelines and detailed answer explanations Even if science is something that s always made you squeamish GED Science Test For Dummies makes it easy to pass this crucial exam and obtain your hard earned graduate equivalency diploma

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Space Julia Jasmine,1996 Reproducible pages designed to teach children about outer space through a language arts approach

The Magnetic Field Yves Earhart,AI,2025-02-12 The Magnetic Field unveils the crucial role of Earth s magnetic field in safeguarding our planet It explores how this invisible shield generated by the geodynamo deep within the Earth protects us from harmful solar and cosmic radiation The book highlights the field s multifaceted nature from its origins to its dynamic interactions with the Sun demonstrating that without it solar flares could cripple our electrical grids and cosmic radiation would bombard the planet The book examines the generation and structure of the magnetic field its shielding capabilities and its influence on navigation and technology

Phenomena like solar flares and coronal mass ejections are discussed in relation to their potential impacts on Earth based technologies. The book progresses from fundamental principles of electromagnetism and geomagnetism to a detailed examination of the magnetosphere and concludes with ongoing research into predicting space weather and understanding magnetic reversals. It emphasizes the importance of geomagnetism and space weather in our increasingly technological world. This book's unique value lies in its accessible approach making complex physics understandable for a general audience interested in Earth sciences and the forces shaping our planet. By drawing upon geomagnetic data, satellite observations and computer simulations, it provides a comprehensive overview of this vital force, linking it to fields like geology, space weather forecasting and even biology.

Test Prep Level 5: Best Friends Forever Comprehension and Critical Thinking Jamey Acosta, 2014-06-01 Fifth graders read a high interest nonfiction article, strengthen comprehension skills by responding to follow up questions, study a primary source document and demonstrate critical thinking skills through document based questions.

AN Optimist's Tour of the Future Mark Stevenson, 2011-02-03 In the tradition of Bill Bryson's *A Short History of Nearly Everything*, a smart and entertaining guide to the future of civilization. When unexpectedly confronted with his own mortality, Mark Stevenson, a writer, deep thinker and stand up comedian, began to ponder what the future holds for our species. The past is a foreign country, writes Stevenson. By my analysis, it's a bit like France in that I've been to parts of it and eaten some nice food there. But the future? The future is an unknown territory and there isn't a guidebook. Thus his ambition was born. Stevenson set out simply asking, "What's next?" and then traveled the globe in pursuit of the answers. Along the way, he visited the Australian outback to visit the farmers who can save us from climate change, met a robot with mood swings and talked to the Spaniard who's putting a hotel in space. While some might be overwhelmed or even dismayed by the looming realities of genome sequencing, synthetic biology, a nuclear renaissance and carbon scrubbing, Stevenson remains well optimistic. Drawing on his singular humor and storytelling to break down these sometimes complicated discoveries, *An Optimist's Tour of the Future* paints a wonderfully readable and completely enthralling portrait of where we'll be when we grow up and why it's not so scary. Watch a Video

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The Solar System Jeffrey O. Bennett, 2004

The Synchronicity Key David Wilcock, 2013-08-20 Unlock the key to a universal life force in this astonishing book from the New York Times bestselling author of *The Source Field Investigations* and *Awakening in the Dream*. *The Source Field Investigations* was a New York Times Wall Street Journal and USA Today bestseller that uncovered

hidden science and lost prophecies to illuminate an entirely new understanding of our world today Now in The Synchronicity Key David Wilcock embarks on an astonishing investigation into what lies beyond finding proof that everything in our lives is not only connected but it also influences everything else Using history astrology and synchronicity theory among other concepts Wilcock shows that there is hidden architecture within time guiding individuals and nations through a system of enlightenment Joseph Campbell called the Hero's Journey Historical events occur in shockingly precise repeating cycles of time as a result Once we understand and identify the hidden laws of this seemingly random synchronicity we are left with a remarkable blueprint of how best to lead our lives in this uncertain and confusing world

Celebrating a Century of Flight, 2002 **Test Prep Level 5: Attack of the Locusts Comprehension and Critical Thinking** Jamey

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Voyager's Grand Tour

Henry C. Dethloff, Ronald Anthony Schorn, 2003 Voyager 1 and Voyager 2 were launched in 1977 Since then they have traveled farther than any human object Voyager 1 is now over 10 billion miles from the sun and is headed to the utmost boundary of our solar system This book originally published under the auspices of the Smithsonian Institution tells the story of their journey through the solar system and beyond The authors unparalleled access to NASA archives and imagery make this authoritative work on the subject The book includes an 8 pages of photographs and computer generated imagery and black and white photos throughout **Universe: The Solar System** Roger Freedman, Robert Geller, William J. Kaufmann, 2010-01-06 Universe When it comes to staying current with latest discoveries clearing away common misconceptions and harnessing the power of media in the service of students and instructors no other full length introduction to astronomy can match it Now the textbook that has evolved discovery by discovery with the science of astronomy and education technology for over two decades returns in spectacular new edition thoroughly updated and offering unprecedented media options Available in Split Volumes Universe Stars and Galaxies Fourth Edition 1 4292 4015 6 Universe The Solar System Fourth Edition 1 4292 4016 4 A Guide for Using 'The Magic School Bus Lost in the Solar System' in the Classroom Ruth M. Young, 1996 **Barron's Early Achiever: Grade 4 English Language Arts Workbook Activities & Practice** Barron's Educational Series, 2022-11 Barron's early achiever workbooks provide a hands on learning experience tailored to grade level skills Meet and exceed learning goals in reading and writing Includes fun interactive activities for comprehension and practice helpful tips glossaries and examples to support learning and multiple reading genres and writing exercises Back cover

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