

Student Exploration: Solar System Explorer

Vocabulary: astronomical unit, dwarf planet, eccentricity, ellipse, gas giant, Kepler's laws, orbit, orbital radius, period, planet, solar system, terrestrial planet

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

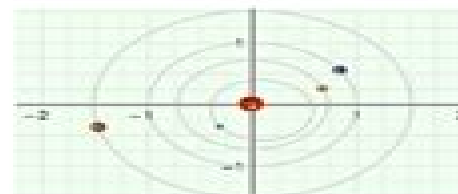
1. List all of the **planets** you can think of in our **solar system**. Try to list them in order from closest to farthest from the Sun.

Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, and Pluto

2. Which planets are most like Earth? Which are most different from Earth? Explain.
Venus is the most like Earth because it has greenhouse gases and all of the outer planets out different from Earth since they are gaseous.

Gizmo Warm-up

The *Solar System Explorer* Gizmo shows a model of the solar system. All of the distances, but not the sizes of the planets, are shown to scale. To begin, turn on **Show orbital paths** and click **Play** (▶). You are looking at the four inner planets.



1. In which direction do planets go around the Sun, clockwise or counterclockwise? **counterclockwise**
2. An **orbit** is the path of a body around another body. What is the shape of the planetary orbits around the Sun? **a circle**
3. Click **Pause** (⏸). You can see the name of each planet by holding your cursor over the planet. What is the order of the eight planets, starting from the Sun? Click the "zoom out" button (◀) to see the outer planets and Pluto, which is classified as a **dwarf planet**.

Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, and Pluto

Worksheet Gizmos Solar System Explorer

Charlene Homer



Worksheet Gizmos Solar System Explorer:

Software for Teaching Science Roger Frost,1998 *CD-ROMs in Print* ,2000 **EXPLORE THE SOLAR SYSTEM!** Anita Yasuda,2009-05-01 Explore the Solar System 25 Great Projects Activities Experiments introduces kids ages 6 9 to the planets moons and other celestial bodies that surround our star the sun as well as the universe beyond Combining a hands on element with history and science kids investigate solar eclipses phases of the moon Jupiter s rings and what astronauts wear Who named the stars What is the Milky Way Why is there night By combining a hands on element with riddles jokes fun facts and comic cartoons kids Explore the Solar System and have a blast along the way Solar System Explorer ,2007 **Let's Explore the Solar System** Rhys Jefferys,2020-05-15 Grab your space suit and get ready for a journey through the stars This book contains everything you need to build your own model of the solar system Simply press out the pieces and slot them together no glue or cutting is required As you press out the model peces you will reveal fantastic facts about the planets circling our Sun Back cover Solar System Activity Book Polly Cheeseman,2024-07-02 Are you ready to shoot for the stars This beautifully illustrated puzzle book invites curious young readers to set off on a journey through space discovering the secrets of the planets their moons the Sun and more Readers will solve puzzles test their knowledge with quizzes and get creative with drawing activities Find the missing piece for a picture of Saturn s rings Spot Haley s Comet in a search and find puzzle Join the dots to reveal the International Space Station This the perfect book for curious kids aged 7 with a passion for space travel ABOUT THE SERIES Take a fact packed journey around the globe with the Activity Atlas series Each book in this range brings together intriguing information about far flung places and exciting activities to intrigue young readers

Discover! Solar System Norma O'Toole,Cindy Barden,1999-09-01 The activities in this book explain elementary concepts in the study of the solar system including orbits the sun the moon and moon phases planets seasons and day and night General background information suggested activities questions for discussion and answers are included Encourage students to keep completed pages in a folder or notebook for further reference and review **An Outline of the Solar System** ,1990 *Inflatable Solar System* ,2006 Www learningresources com Includes Nine planets Sun Earth s Moon Foot Pump and Activity Guide **Solar System Gr. 5-8** Charlene Homer,2007-03-01 Thrill young astronomers with a journey through our Solar System Our resource presents science concepts in a way that makes them accessible to students and easier to understand Introduce students to the solar system Explain how it is made up of planets moons and asteroids Then travel to each of the inner and outer planets Build a scale model of the solar system and plan your trip to one of its planets Your next stop the moon Learn the different phases of the moon and figure out what a Blue Moon is Take a look at the stars and compare yellow dwarfs with blue giants Create a presentation detailing the story behind your favorite constellation Finally compare asteroids meteors and comets as they travel through our solar system Aligned to the Next Generation State Standards and written to Bloom s Taxonomy and STEAM initiatives additional hands on experiments crossword word search

comprehension quiz and answer key are also included *Space Explorer*, 2000 **Kids Astronomy Puzzles** Emily Irwin, 2017-01-28 Have a Ton of Fun While Learning About the Planets and Solar System Enjoy several types of puzzles that have everything to do with space planets solar system and astronomy Puzzles help develop hand eye coordination as well as help with fine motor skills Word puzzles can also build visual perception skills Puzzles help with holding attention increasing concentration memorization matching sorting problem solving thinking and being more creative Puzzles can also help with language skills as the child listens to the directions follows the directions and then talks about what they are doing as it relates to the puzzles This book includes Word Searches Ditto Puzzles Alphabet Soup Puzzles Piece by Piece Puzzles Scratch Paper Between Pages to Help with Brainstorming and Problem Solving Puzzles Are a Fun and Easy Way to Learn any Subject You have to learn the subject anyways you might as well have fun while learning With puzzles it gets you thinking and problem solving It also activates the memory part of the brain that helps you to actually retain and soak in what you are actually learning Topic Specific Puzzles Learn at a greater speed because you will be completing puzzles all on the same topic So by the time you are done you will be an expert in the subject Scroll up and grab a copy today **A-Maze-ing Adventures in the Solar System** Lisa Regan, 2020-12-15 Readers will get an idea of what that would be like to explore the solar system with this exciting guide to space science Mazes expand readers knowledge of the solar system while encouraging them to think creatively and use their problem solving skills in fun ways Useful fact boxes and a glossary full of helpful terms allow readers to deepen their knowledge of this basic science curriculum topic As they learn readers also get to enjoy stunning full color photographs and illustrations that take them on an interplanetary tour they won't soon forget **Exploring Your Solar System** Elizabeth Rathbun, 1989 Explore the solar system the inner and outer planets and the outer limits *Space & Planets* Time-Life Books, 1992 Questions and answers explore various aspects of astronomy including the planets stars and space exploration **Our Solar System for Beginners** M D Norris, 2021-03-31 Humans have gazed at the heavens and tried to understand the cosmos for thousands of years Ancient civilizations placed great emphasis on careful astronomical observations Early Greek astronomers were among the first to leave a written record of their attempts to explain the cosmos For them the universe was Earth the Sun the Moon the stars and five glowing points of light that moved among the stars Blast off on an exploration of our solar system Suit up for an expedition into the mysteries of our amazing solar system and beyond This book includes Big beautiful images Vibrant photos will take kids deep into space and onto each planet No telescope required Fact filled flight Learn all about the astronomical bodies in our solar system with profiles covering size distance from the sun the length of each year and more Astronomy for kids Learn all about the eight planets in our solar system plus dwarf planets Ceres Pluto Eris Haumea and Makemake Tiny but mighty Enjoy a detailed look at the smaller bodies in our solar system such as dwarf planets satellites asteroids and the objects in the Kuiper Belt and the Oort cloud Rocket through the cosmos and explore the many mysteries of our magnificent solar system *Space Explorer*

Set Patricia Whitehouse,2004-06-01 This series describes each planet in our solar system in order from the Sun compares the features of the Sun the Moon and stars to those of Earth and shows our planet as seen from space Readers will further explore the difficulties of surviving in space and the solutions that have been designed to overcome these difficulties Other series features include diagrams NASA photography and amazing space facts **Ten Easy Steps to Teaching the Solar System** Michelle Robinette,2002 *Solar System Planets* ,2025 Get ready to uncover the secrets of our incredible Universe Which planet is the hottest or the coldest Which one has the most moons or dazzling rings What are volcanoes and storms like on distant worlds Packed with fascinating facts and colourful illustrations this book is bursting with fun activities to test your knowledge and creativity Solve puzzles match planets to their unique features and challenge yourself with trivia that will make you a true space explorer page 4 of cover

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