

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

Student Exploration Solar System Explorer Gizmo Answers

Susan Akass



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Solar System Explorer ,2007 *Exploration Station* John F. Kennedy Space Center,199? Student activities and experiments relating to the study of the solar system **Learn about Space and Planets** Susan Akass,2021-11-23 How far away is the Sun What is a shooting star Why is there life on Earth Learn the answers to these questions and more in this fun and fact filled guide to our universe the solar system and natural phenomena like life and gravity In this awesome guide discover how to become an astronomer by studying the Sun Moon and stars in our galaxy as well as learning about the terrains of different planets did you know that there are volcanoes known as pancake domes found only on Venus As well as up to date information and mind boggling facts Learn about Space and Planets is full of step by step activities and experiments you can do at home to help illustrate the science right in front of your eyes How would you fancy creating an exploding volcano or seeing how craters are made using flour cocoa powder and sprinkles Enjoy learning all about space and planets and be prepared to have your mind blown **Messages from Space** Kevin Beals,John Erickson,Cary Sneider,2000-03 Building on collaborative work between the SETI Search for Extraterrestrial Intelligence Institute and the Lawrence Hall of Science Messages from Space takes advantage of our fascination with extraterrestrials to catalyze study of the solar system and beyond The activities create an exciting context for students to engage in creative learning gaining a great deal of astronomical knowledge The unit begins when students attempt to decode a fictitious message from outer space Imagining that they are SETI scientists students begin to analyze where in the solar system and beyond there may be conditions favorable for life They investigate how our solar system and other planetary systems may have formed and consider how what we know about the solar system fits into a bigger picture of the universe Throughout students consider whether life could exist out there and if so how we might communicate with those lifeforms In doing so students also gain valuable experience distinguishing science fact from sensationalized fiction Messages from Space includes background information and diverse resources Teachers do not need to have special knowledge of astronomy to present this unit successfully All GEMS guides are thoroughly tested in classrooms nationwide and come complete with clear step by step instructions assessment suggestions literature connections and ideas for further investigation I must say that I enjoyed this unit more than any other GEMS unit I ve used and so did my students The underlying theme of the message held everyone s attention and was a useful hook to grasp onto throughout the unit And the travel brochure and science fiction storiesprovided excellent opportunities for assessment Teacher Alexandria VirginiaI would strongly recommend these creative interesting and attention grabbing activities The book would also make a great organizer for a summer or after school enrichment program at the elementary level NSTA RecommendsTABLE OF CONTENTS Introduction Time Frame Activity 1 Message from Space Session 1 Making Contact Session 2 Interpreting a Message from Space Activity 2 Somewhere in the Milky WayC7S Space Exploration ,2001 Offers an introduction to space science covering the solar system constellations space

stations and travel to the planets Includes quiz corners

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