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Solar system gizmo answers

Science projects for kids: the incredible universe takes you to worlds just waiting to be discovered. With simple instructions and everyday material, you will learn more about constellations with the children. You can start with stars watching and watching shooting stars - and then make a planetarium or star theatre to bring what you've learned back home. Learn more about the planets and star brightness, and make an astrolabe. And these are just a few of the science projects you can try! Follow the links below to find science projects for children: the incredible universe you can do with children: Make a Planetarium Use planetarium to show constellations on a wall in your home. Star Gazing Start by finding the North Star, and then see more. Umbrella full of Stars Turn your umbrella in a star-sown private planetarium. Star Theater Make constellation punch-outs and then a star cinema. Scale off the Solar System Use peas, fruit, and nuts in a true scale model of the solar system. Make an Astrolabe Track the position of the stars with a simple tool you make. Shoot Stars Find the right night, and get ready for fun of a meteor shower. Space Explorer Mobile Explore the details of the space with a mobile you make and hang. Planetary Walk Get has a better sense of the solar system by taking a planetary walk. Starry Night Observer Takes a closer look at the night sky, and write down what you see. See the Planet Learn to find Venus, Jupiter and other wandering stars. Star Brightness Detector Use this cell of detector to categorize the brightness of stars. Paint Speck Constellations Turn specks of paint in your own set of constellations. Go to the next page of science projects for kids: the amazing universe to find out how you can make a planetarium for star shows in your home. For more fun science projects for kids, see: Ad content Makes a Planetarium, and you can create a representations of night sky in your home. You will find simple instructions in this science project for kids: the incredible universe. ©2007 Publications Internationally, Ltd. Create a planetarium in your room. What you need: Shoe box Scissors Star chart Pen or pencil Pin Tape Flashlight Books Step 1: On one side of a shoe box, cut a hole just big enough for a flashlight to fit in. Step 2: Cut a rectangle from the other side of the shoe box. Step 3: Using the star guide, draw points on a piece of paper to represent the stars of a constellation, and poke holes by the ends with a pen. Do this for various different constellation. Step 4: Put one of the sheets of paper over the rectangular hole in the box and band it in place. Step 5: Supports the flashlight with a stack of books, and put it in the hole on the other side of the box. Step 6: In a darkened room, turn on the flashlight and your constellation on a wall. Quiz your friends or family to see if they can different constellation. Go to the next page of science projects for kids: the amazing universe for some easy steps to get more out of your stars. For more fun science projects for kids, look at: Ad star look is an easy way to teach yourself how to recognize the constellation. Collect some items, wait for a bright night, and you'll be ready for this science project for kids: the amazing universe. What you need: Star chart Clear night Flashlight Piece of red selenophane Step 1: Get a star chart, and learn about the night sky. You can find one in many books at the library. Step 2: On a bright night, go outside and see if you can find the constellation in the air. The stars are moving throughout the year, so you'll see different constellation at different times of the year. Step 3: Look for the starting point for star looking, usually the North Star, also called Polaris. It's the only star that doesn't move. To find the North Star, find the Little Dipper. The last star on his handle is the North Star. Another way to find the North Star is to licticing the Big Dipper and detect an imaginary line of the two stars in the dipper's front edge, leading out of the dipper. The North Star is along this line. Step 4: Once you've found the North Star, try to find the other constellation. Use a flashlight to refer to your star card. (Cover the flashlight with red selenophane so you can still see the stars when looking back at the sky.) Keep reading on the next page to find out how you can fill your umbrella with constellations. For more fun science projects for kids, check out: Ad Create your own private planetarium with an umbrella full of constellation. Find them, mark them, and save them to look again at another day. Have fun with this science project for kids: the amazing universe. © 2007 Publications International, Ltd. Mark Constellations in your umbrella. You need: Clear night when the moon is invisible or very small Black umbrella (that it's OK to mark up with gett) White getty Star Chart Step 1: Open the umbrella and keep it over your head. Step 2: Show the tip of the umbrella at the Northern Star. (Use a star graph to find the North star.) Step 3: Look up at the bottom of the umbrella. You may see the stars shine through. Step 4: Use white gett to mark every place on the umbrella where you see a star. (It will be easier if someone else keeps the umbrella for you.) If you can't see the stars through the umbrella, just look in the air and mark the stars in the same positions as you see it in the air. Step 5: When you've marked all the stars you can see, take the umbrella inside. Compare your points with a star chart. What stars and stars have you marked? Step 6: Draw lines that connect, and label them with their names. Go to next page to find out how you can constellation punch-outs in a star cinema. For more fun science projects for kids, look at: Advertising You will be the star when you learn the shapes of some constellations and put on a show for the family with this star theatre! © 2007 Publications International, Ltd. Turn constellation punching outs took place in a stellar theatre. What you need: Empty steel cans (such as soup or coffee cans) Pliers Tracing paperbook of constellations Pen Scissors Pin Masking tape Hammer Thin finishing nail Flashlight Black cloth (optional) Step 1: Clean the cans, and use pliers to flatten any sharp points. Step 2: Lay the end of the tin on the detection paper and pull circles with a pencil. Step 3: Lay the marked detection muscle on a picture of a constellation in a book, and locate a constellation inside each circle, using points to represent stars. If a constellation won't fit in the circle, you can try to draw it free hand. Step 4: Cut out the circles and use a pen to throw a hole where each star is marked. Step 5: Turn each circle over so that the constellation is backwards, and tape one to the closed end of the steel can. Step 6: Use a hammer and a thin finish nail a hole through each pen hole punching. (Always be careful when using a hammer!) Remove the paper. Step 7: Write the name of each constellation on a piece of masking tape and attach each piece of masking tape to the can represent it. It is so you can remember which constellation is what. Step 8: Shine a flashlight in the open side of the mare to shine the constellation on the ceiling. You can take the open side of the tin in black cloth to exclude excess light when you sit on a star show for your family. Have you ever wondered how big the solar system is? Go to the next page of science projects for kids: the amazing universe to find out by making a scale model with peas, fruits and nuts. For more fun science projects for kids, see: Ad Scale down the solar system with a scale model made of peas, fruit, and nuts. You will have a better sense of the great size of the solar system if you are trying this science project for kids: the amazing universe. ©2007 Publications International, Ltd Make Your Own Scale Model of the Solar System. You've probably seen many drawings and diagrams of the solar system. However, to make the drawings fit on a piece of paper, the artists have to draw the planets closer together than they really are. In this activity, you will make a scale model of the solar system. You'll be surprised to see how much bigger some planets are than others, and how far apart some of them are. What you need: Ball over 27 inches in dia dianament (like a beach ball) 5 peas 1 orange 1 tangerine 2 walnuts Tape measuring Great open space Step 1: Open Your in a large open space that will represent space. Step 2: Put the beach ball or other large ball on one side of space. The ball is the sun. Step 3: 3: the other objects as shown in the chart below. (Remember to measure each planet of the sun.) Planet Object Distance of the Sun Mercury Pea 1-3/4 inch Venus Pea 3-1/4 inch Earth Pea 4-1/2 inch Mars Pea 7 inch Jupiter Orange 2 feet Saturn Tangerine 3 feet, 7 inch Uranus Walnut 7 feet, 3 inch Neptune Walnut 11 feet, 4 inch Pluto Pea 14 feet, 10 inch Go to the next page to find out how you can make an astrolabe and measure the position of the stars. For more fun science projects for kids, check out: Ad Learn how to measure the position of stars when making an astrolabe. You will be using a tool that astronomers and shavers use for centuries when you do this science project for kids: the amazing universe. © Publications International, Ltd. Make an astronomer to detect stars. When scientists describe the position of a star in the air, they measure its position relative to the horizon. An astrolabe measures how high above the horizon the star is in degrees. What you need: String Plastic protractor Weight (washer, rock, or fishing weight) Pen and paper Step 1: Bind a 12-inch piece rope to the hole in the middle of the crossbar on the protractor.

