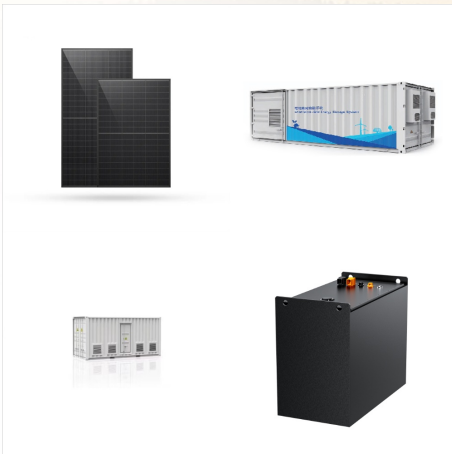




1 Solar System Walk ??? Lab Procedure Read through the materials that follow and answer all questions on the answer sheet. Materials provided: Small metric rulers, balloons, collection of small objects, peppercorns, coins, small round pebbles of a variety of sizes, marbles, salt or sugar grains, note cards, wooden stakes or skewers, transparent tape, or cell phone ???



Advanced Physics questions and answers;
Astronomy Lab Manual Page 83 Scale of the Solar System Name Lab Sheet 7 (pg. 1) Lab Section Getting Started at the formation of order of, size of, and relative distances between the planets within the solar 1. What do you know about the formation of order of size system? Record your ideas here.



LAB 7 The Scale Model of the Solar System
Pre-Lab. Flashcards; Learn; Test; Match; Q-Chat; Get a hint. Axial tilt of the Earth? 23 degrees. $1 / 11$. $1 / 11$ is 6,370 kilometers. The planet Neptune is 24,620 kilometers. If a scale model of the Earth is drawn with a radius of 2.5 centimeters, how large would a scale model of Neptune

SCALE MODEL OF THE SOLAR SYSTEM LAB ANSWERS



A solar system is a group of planets and other space material orbiting (going around) a star. In our solar system, that star is known as the Sun and the planets are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune.. We want our model to reflect the relative distances and sizes of the planets. Materials: Metric ruler; White poster board



In this activity, students use scale, proportion and/or ratios to develop a scale solar system calculator. Using spreadsheet software, students will determine the size of and/or distances between planets on a solar system model that fits on a playground. Materials. Example not-to-scale images of the solar system. Computer or mobile device



Study with Quizlet and memorize flashcards containing terms like If we represent the solar system on a scale that allows us to walk from the Sun to Pluto in a few minutes, then:, What do astronomers mean by the Big Bang?, An astronomical unit is and more. See an expert-written answer! Suppose we make a scale model of our solar system

SCALE MODEL OF THE SOLAR SYSTEM LAB ANSWERS



Lab Activity 1 ??? The Scale of the Solar System.
Part A: The Separation of the Planets. Objective:
The objective of this activity is for the student to construct a model of the scale of the Solar System to provide a visual illustration of how distantly the planets are spaced and how large the Solar System is.



Science; Earth Sciences; Earth Sciences questions and answers; Lab Report: The Planets Name:
Geology Part 1: Scale Model of the Solar System
Distance from Sun (AU) Distance from Sun (AU)
Mercury 0.39 Jupiter 5.203 Venus 0.732 Saturn 9.539 Earth 1 Uranus 19.18 Mars 1.524 Neptune 30.06 Asteroid belt 2.2-3.2 Kuiper belt 30 - 50 1.



2.1 cm_model----- 1.39×10^9 m_reality 2.1 cm = diameter of the sun in our football-stadium model
 1.39×10^9 m = the sun's diameter in reality 2.1 cm is the relative we use for all planets when finding diameter in our football-field model (put planet's real diameter under 2.1 cm and divide)

SCALE MODEL OF THE SOLAR SYSTEM LAB ANSWERS



Memorial Stadium as our platform for developing a scale model of the Solar System. A scale model is simply a tool whereby we can use manageable distances to represent larger distances or sizes (like the road map of New Mexico used in Lab #1). We will properly distribute our



Calculate the scale factor when the actual measurements of the solar system and the model are given. Learn facts about the solar system, such as the number of planets in the solar system, the small size of the planets compared to the size of the solar system, that all planets of the solar system orbit the Sun, etc. NGSS Alignment



When in doubt, build a model. I'm big on using models whenever possible. I wanted my students to create a scaled model that showed not just planet size, but distance as well. A company called Mighty Wonderer reached out to me and offered me a solar system model to use with students and I was happy to check it out (you can find it on Amazon

SCALE MODEL OF THE SOLAR SYSTEM LAB ANSWERS



Its a worksheet on the solar system scale model of the solar system student guide assignment summary for this assignment, you will conduct research to find the Identifying Lipids Lab Report; Star Spectra SE 22 - just my answers for the report; Atomic structure forces; Doppler Shift SE # Signature Assignment Self-Guided Field Trip - Geologic



Choose which system of units you feel more comfortable with. Your group will construct a scale model of the solar system based on average distance to the Sun. Your model must fit in the hallway (54 meters long), the classroom, or outside (weather permitting). You must decide the scale you will use for your model. Additionally, place the



This bundle includes my Scale of the Solar System Lab and Scale of the Solar System Excel Sheet. These two resources will allow you to accurately scale-out our Solar System. All you need to do is input your model Sun and walk off the distances. Bewarned, the bigger your model Sun, the longer you wi

SCALE MODEL OF THE SOLAR SYSTEM LAB ANSWERS



Question: A Scale Model of the Solar System (20 points) -- To do this will require a little arithmetic, but it will give you a feeling of how big (and empty) the Solar System we live in is. You are to complete the table below with the scale of the model being set by making the diameter of the Earth equal to 1 foot (12 inches), about the size of the



Why is it necessary to use scale distances when dealing with large distances like those between the planets in the solar system? _____

Procedure: 1. Convert the various AU (Astronomical Unit; an AU is the average distance from Earth 150,000,000 km) distances to centimeters by multiplying by a scale factor of 10 centimeters per AU and



In this project, you will create your own scale model of the solar system by learning how to calculate scale distances, the relative sizes of planets, or both. Then, use beads and string, sidewalk chalk, or your own creative choice of ???

SCALE MODEL OF THE SOLAR SYSTEM LAB ANSWERS



??? For members only, see a Solar System and Beyond ebook example, and the Scale Solar System Display Case Examples. ??? With more time, you can preface a scale model Solar System with a scale model student drawing activity. Have students measure themselves (partners really help) with meter sticks/tape measures, and do some simple math to



design your own scale model of the solar system and demonstrate it to someone else. You are already familiar with scale models. Perhaps you built models or played with toy cars or people when you were younger. Both of these are examples of scale models. In the case of model cars, they are usually 1/24th scale (or 1 inch = 2 feet).



Purpose: Construct a scale model of the solar system to familiarize the student with the relative sizes and positions of the planets in the solar system and the vast distances between them and between the Sun and other stars. A convenient scale has 1 foot representing 1 million miles. This same scale has 1000 miles representing 1 light-year.

SCALE MODEL OF THE SOLAR SYSTEM LAB ANSWERS



HANDS-ON LAB Model the Solar System Materials
 ??? ball, large (20 cm or larger) ??? calipers or wire-gauge tool
 STEP 1 To use the same scale for distance in the solar system as you used for size, find the distance of 1 AU at this scale. Remember that the sun is
 STEP 2 Divide the answer in cm by 100 to get the answer in meters. The meter



Calculate the scaled planet diameters and planet-sun distances for a solar system model.
 Enter scale or diameter or distance, select to show table and/or map below, select options, then press Calculate. Examples: Scale 1 : 100000000 or Sun Diameter ???



A SCALE MODEL OF THE SOLAR SYSTEM For each of the following objects, use the scale from the presentation to find the size and distance (in centimeters) of a scale model of the Solar System. Earth is held to be the size of a standard, 12 inch (30.5 cm) globe located 1 Astronomical Unit (2.23 miles, in the scale) from the Sun. For the scale model drawings, copy ???

SCALE MODEL OF THE SOLAR SYSTEM LAB ANSWERS



When in doubt, build a model. I'm big on using models whenever possible. I wanted my students to create a scaled model that showed not just planet size, but distance as well. A company called Mighty Wonderer reached out to me and ???



Directions: Select the correct answer to the question from the answers provided. Student quiz ???

Answer key Make a Model of the Solar System

Name: _____ Date: _____ 2. What is the scale

factor for a model of the solar system where Jupiter has a radius of 10 cm? a. 1 cm/6,378 km b.



Question: Lab 1: Seale of the Solar System

Objective: to get a better insight into the scale of our solar system. Create two different scaled models of the solar system (below, questions 1& 2). The first model brings the diameter of planetary bodies down to ???