

Scale model of the solar system project





Overview

What is a Solar System scale model?

The first model will compare the distances between the planets and the Sun. The second model will compare the sizes of the planets. You probably won't be able to display either of these models, but you will learn a lot about the real dimensions of space. How can we make a solar system scale model?

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How do you make a scale model of a solar system?

Make a Solar System on a String (scale distance model) Tie colored beads onto a string to make a scale model of the distances between planets in the solar system. You can wear your model or even display it on a wall. Measure and cut a piece of string about 30 cm longer than the distance you calculated from the Sun to Neptune.

How do students create a solar system model?

Students can work with local government to create a scale solar system model with correct sizes and distances that spans some or all of their city, town or region. In this activity, students use spreadsheet software and their knowledge of scale, proportion and ratios to develop a solar system model that fits on a playground.

How do you make a scale model of a planet?

Use distance markers like cones, ground stakes, or popsicle sticks to mark the locations of the planets at the distances you calculated. Attach drawings or cutouts of the planets to their markers. Use beads and string, sidewalk chalk, or your own creative choice of materials to build a scale model of planet sizes or distances in the solar system.

Why should you build a scale model of solar system distances?



When you build the scale model of solar system distances, you will undoubtedly notice that some of your friends will be much closer together than others. Some of your friends will have to stand quite close to each other, while others will be far enough away to have a hard time hearing you!.

Why do astronomers use scale models?

Our Solar System is huge and the distances between the planets are difficult to comprehend. A look at the various units required for measuring distance in space reveals just what astronomers are up against! Using scale models helps us to visualise this.



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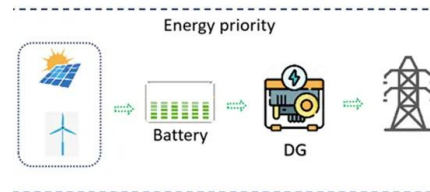


Solar system scale model project , The Planetary Society

Solar system scale model project Planetary Society member David Haynes, of Canberra, Australia, sent us this suggestion for a fun and educational space activity for kids. David created scale models of the planets in our solar system, at a scale of 1 cm to 100,000 km.

[Build a Solar System Model](#)

Make a scale model of the solar system with this JavaScript enabled page. All you have to do is specify the size of the sun and the rest is figured out to you. I've only given you the sizes and distances to the planets. If you'd like to see the satellites of the planets as



Scale Model of the Solar System , Discover the Universe

The solar system is so large that it can't be shown to scale on a standard image. If the planet sizes are shown to scale, then the distances will be too large to fit in the image. On the other hand, if the distances are to scale then the objects will be too small to be visible.

Scaled Solar System Model

But one thing that is hard to grasp is the size of the solar system.... it is HUGE. (Yes, it's very tiny in comparison to the universe, but when they learn it would take 12 years to reach Neptune in a rocket ship, they start to grasp how far apart the planets are).



Creative Solar System Project Ideas for Students

This solar system model project encourages hands-on learning and fosters a deeper understanding of the planets in our solar system. By constructing a 3D representation, students can visualize the scale and placement of each planet, providing a more immersive



How to Draw a Scale Model of the Solar System

Astronomy is a subject that often fascinates students of every age. The solar system is very spread out, which makes accurate scale models difficult to draw. Planets such as Jupiter are 1/10 the size of the sun, but Earth is 1/100 the size of the sun. With the right materials it is possible to draw a fairly accurate



Student Project: Make a Scale Solar System , NASA/JPL Edu

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 materials to build a model you can explore - or maybe even wear!



[Solar System: A Semirealistic Model](#)

A beautiful, educational and fun interactive model of the solar system SOLAR SYSTEM A semi-realistic model Start Earth 1.5M km 100% 3500 km 100% 1 M? 100% 365 days 100% 24 hours 100% 1 About this project This is an interactive ...



Model the Distances between Planets in our Solar System

You will make a model of the solar system. Imagine you shrink the solar system so much that the distance from Earth to the Sun becomes 10 cm. When you shrink the solar system this much, all the planets shrink in size, so they become too small to see. You

Planets Project: Scale Model of the Solar System

Create a stunning scale model of the solar system using foam balls, wooden dowels, and paint. Present it with labels, orbits, and a short explanation to showcase your understanding of planetary sizes and distances. Creating a scale model of the solar system is a fantastic project that can help you understand the relative sizes and distances of the planets.



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[Scale model of the Solar System](#)

Solar System models, especially mechanical models, called orreries, that illustrate the relative positions and motions of the planets and moons in the Solar System have been built for centuries. While they often showed relative sizes, these models were usually not built to scale.



31 Solar System Model Project Ideas: A Complete Guide

With the solar system model project, you can explore the vastness of our universe through creative and interactive hands-on activities. Similar to calculating scale distances, you'll need to choose a suitable scale for your model. Let's continue with the 1:100



[Voyage Scale Model Solar System](#)

Voyage exhibits now opening across the country! Click here to learn more about becoming a Voyage community. Watch Dr. Bennett lead a tour of the Voyage Mark II model at the University of Memphis. The Voyage scale model solar system opened in October, 2001 on the National Mall in Washington, DC. Voyage depicts the Sun, [...]

Discover the wonders of space and the Solar System with the ...

Discover the solar system, one step at a time through our 1:3.6 billion scale model. Spanning 1.2km between Dirleton Village and Archerfield Walled Gardens, experience the enormity of our solar system. Learn about space, the Sun and the planets with our free, open access installations.



Exploring the Solar System: Pocket Solar System

Help participants understand that there is a lot of space in between planets. Using receipt paper, participants make a scale model of the distances between objects in the solar system. They learn that the distance between planets is vast. A training video is



Scale Model Solar System resources for informal educators

For Park Educators: (Credit: Peoria Riverfront Museum) Use your large parks to create a TRULY scale model Solar System in both size AND scale, something practically impossible in any other venue. It can be elaborate, like in the above picture from the Peoria Riverfront Museum in IL, or just print out the NASA "Planets to Scale PDF," and find some space.

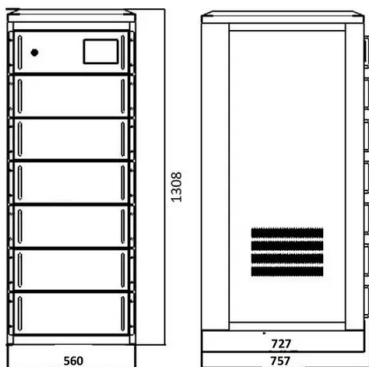


DIY Scale Model of the Solar System

ACTIVITY Make a scaled down version of the Solar System to get picture of how big and how far apart Earth's near (and far) neighbours are. Activity instructions You will need: a coloured print out of the Solar System and instructions a long strip of paper, as long as you can stretch your

Solar System Scope

Solar System Scope is a model of Solar System, Night sky and Outer Space in real time, with accurate positions of objects and lots of interesting facts. We hope you will have as much fun exploring the universe with our app as do we while making it :)



Scale Model Solar System Resources for Informal Educators ...

oTo Scale: The Solar System by Wylie Overstreet and Alex Gorosh, is a 7 minute artistic video about creating a truly scale model Solar System. It's also downloadable for offline viewing. Also consider their video about the 2017 Eclipse scale model. o Drone Solar System Model is a 9 minute video about an approximate scale model Solar



The Solar System to Scale: Dynamic 2D Model

1 pixel = 1,000 km. This 2D visual model illustrates the scale of the sun and planets in our solar system, and their current distance from each other. The Solar System to Scale in which every pixel on the screen represents 1,000 kilometers.

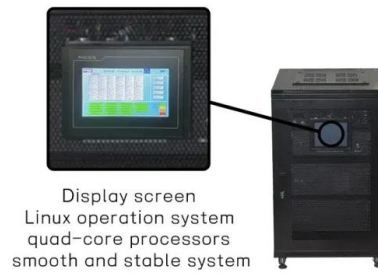


Image credit: NASA/JPL Scale Model Solar System Teacher's Guide

o The scale factor for this scale model solar system is 1:10 billion. o One good way to talk about scale factors with your students is to discuss maps. You may also want to ask them to name other types of scale models they have seen before (model cars o In

Voyage

In October 2001 a 1 to 10-billion scale model of the Solar System was permanently installed on the National Mall in Washington, DC, between the U.S. Capitol and Washington Monument. Located along a 2,000-foot path in front of the Smithsonian Institution - from

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Scale Model of the Solar System

Most models of the Solar System aren't to scale. Let's think about what it would take to make one. Skip Navigation Courses Topics Teaching OER Project Community Login / Join Scale Model of the Solar System Presentation Mode Print Download Current View



Make a Model of the Solar System , Lesson Plan

This hands-on science lesson will help your students get a more accurate view of the solar system by making a scale model. They will do the calculations, make model planets, and find out where to place them so their model reflects reality.



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Solar System

Making a model is an excellent way for learning about Solar System. Many attempt to make a scale model, but since actual planets are very far from each other, pieces of the model also need to be relatively far; so you will not be able to see the entire solar

[Build a Solar System Model](#)

Make a scale model of the Solar System and learn the REAL definition of "space." This Page requires a JavaScript capable browser. Fill in the diameter of the Sun you want your model to ...



Seattle Solar System scale model -- Three Dragons Academy

Students at Three Dragons Academy built a Solar System Scale Model as an All-Academy project in January 2024! This Event starts February 12 and ends around the beginning of April! Each month, TDA features a different theme, and in January it was "Out of this World" : All month, we learned about the planets, practiced & honed our painting skills, and then made scale-size ...





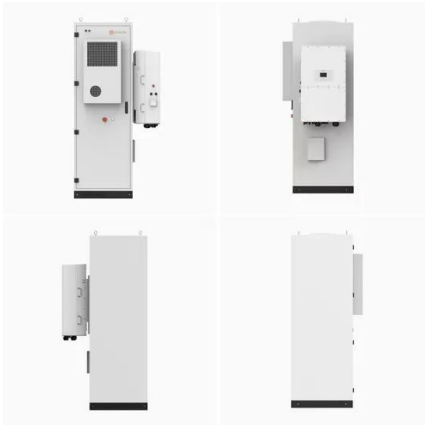
Create a Solar System Scale Model With Spreadsheets

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 ...



Educator Guide: Solar System Scroll , NASA/JPL Edu

Ask students what surprised them about their guesses versus the actual scale of the solar system? We split our solar system into two groups: the inner and outer planets. Discuss how these are broken down and where, in students' models, that split begins



[Make a scale model of the Solar System](#)

Using scale models helps us to visualise this. In this project we'll show you how to make a model of the Solar System that shows the distances between the planets to scale. It makes for a fun science and astronomy project for kids, both at ...



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