



# Distance scale model of the solar system

The distance between planets really depends on where the two planets are in their orbits around the sun. ... I guess this is why most maps of the solar system aren't drawn to scale. It's not hard to draw the planets. ... we have to make up mental models and see if they match up to the tiny shreds of hard evidence that actually feel real. The ...

Making and exploring a more accurate scale model Solar System (or at least part of one) can help students and the public better understand the vastness of space and the challenges of space ...

A scale model - a model with sizes and distances proportionally reduced or enlarged - is a great way to correctly display the size of and distance between planets, giving students a better visual representation of the solar system than they could otherwise get ...

Scale Model of the Solar System Introduction The Solar System is large, at least when compared to distances we are familiar with on a day-to-day basis. Consider that for those of you who live here in Las Cruces, you travel 2 kilometers (or 1.2 miles) on average to campus each day. If you go to Albuquerque on

PHYS133 Lab 2 Scale Model of the Solar System UDel Physics 5 of 7 Fall 2018 Table 3 - Scale Data for Major Moons

Object	Diameter (km)	Distance (km)	Distance Scale (cm)	from planet Scale (cm)
Moon (Earth)	3,476.00	384,400		
Phobos (Mars)	22.20	9,378		
Deimos (Mars)	12.60	23,459		
Io (Jupiter)	3,630.00			
	422,000			

See how the sizes of planets and the distances between them compare. And find out why it's so hard to create a scale model of the solar system that accurately represents both size and distance on a single screen or the page of a book. Watch en Espa&#241;ol: ...

The distance from Earth to the Sun is 93 million miles (149 million kilometers), but the distance to the farthest planet ... - Suppose you wanted to build a scale model of our solar system so that the orbit of Neptune was located 10 feet from the yellow ball that represents the sun. How far from the yellow ball, in inches, would you place the ...

The enormous ratio of interplanetary distances to planetary diameters makes constructing a scale model of the Solar System a challenging task. As one example of the difficulty, the distance between the Earth and the Sun is almost 12,000 times the diameter of the Earth.

If time is short, have the students make a scale model of the planets and show the National Geographic's video listed in the Additional Background section to show students the vastness of the solar system. Assign the activities How Big Are the Planets in Our Solar System? and Model the Distances between Planets in our



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Solar System as homework ...

The Voyage Scale Model Solar System in Washington, DC is a true scale model of the solar system. It uses a 1:10,000,000,000 scale factor to display the relative size of the Sun, the planets, and ...

Solar System Scale After Activity D-5 in Solar Project Astro Resource Notebook Grades: 6-12 Subject: Space Science Purpose: Students create a scale model of planetary distances in the solar system. It is a good way to demonstrate the vast distances among the outer planets and to apply math skills in proportion.

This artist's concept puts solar system distances -- and the travels of NASA's Voyager 2 spacecraft -- in perspective. The scale bar is in astronomical units, with each set distance beyond 1 AU representing 10 times the previous distance. One AU is the distance from the Sun to Earth, which is about 93 million miles, or 150 million kilometers.

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. The best way to understand the true dimensions of the solar system is to create a scale model.

See how the sizes of planets and the distances between them compare. And find out why it's so hard to create a scale model of the solar system that accurately represents both ...

A model of the 6 billion km Sun-Pluto distance is a 600-meter path, or a comfortable 10-minute walk. For a 1 to 10-billion scale model Solar System, it turns out that the size of a basketball (0.24 meters in diameter) is mid-way between the 0.1 mm model moon and ...

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 ...

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 included, and materials for this activity are also available in Spanish.

The Voyage scale model solar system opened in October, 2001 on the National Mall in Washington, DC. Voyage depicts the Sun, the planets, and the distances between them all on the same scale of 1 to 10 billion, giving visitors a real sense of the vastness of our solar system ("that's why they call it space!").

The vast distances and differences in space and time that are present in the real solar system can make observation boring or intimidating. This model contains real data and real orbital math; but distances and differences in space and time are algorithmically reduced to make the exploration experience more interesting and fun.

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The largest such scale model, the Sweden Solar System, uses the 110-meter (361-foot) Avicii Arena in Stockholm as its substitute Sun, and, following the scale, Jupiter is a 7.5-meter (25-foot) sphere at Stockholm Arlanda Airport, 40 km (25 mi) away, whereas the farthest current object, Sedna, is a 10 cm (4 in) sphere in Luleå; 912 km (567 mi ...

In this activity, you will make a model of the planets in the solar system and specifically model their distances to scale. Will it explain why the Voyager 2 took so long? Try it and see! ... However, you can build a model of our solar system that demonstrates the concept of gravity, using balls of different sizes to represent the sun and ...

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