

# Scaled planets





## Scaled planets



### Real and Scaled Distances of the Planets

Real and Scaled Distances of the Planets

Planet	Real Distance from the Sun (average)	Scaled Distance from the Sun (average)
Sun	0	0
Mercury	58 million km	6 Steps, 1 m Each
Venus	108 million km	5 Steps, 1 m Each
Earth	150 million km	4 Steps, 1 m Each
Mars	228 million km	2 Steps, 1 m Each
Jupiter	778 million km	8 Steps, 1 m Each

### Model the Distances between Planets in our Solar System

For planet Earth: Tie the end of the yarn to the card labeled "Earth". On the string of yarn, mark a point 10 cm from the label--the distance from Earth to the Sun in your model. Cut the string about 3 cm further down so you have a little extra to tie a knot. Tie the



### VOS40

From a reference (diameter, distance, or scale), VOS 40 lists the diameters and distances scaled for all planets, the eccentricity of their orbit, and their respective positions around the sun at a given date (heliocentric How to? To compose your solar system

### 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

...



### Solar System Scale Model

Although we could print the planet sizes to scale, the paper would need to be way too large to show the scaled distances. Instead, to help you understand the sizes and distances of our ...

### Real and Scaled Sizes of the Sun and Planets

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### Scale Model Solar System resources for informal educators

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 ...



## Planet and Dwarf Planet Scaled Cut-Outs (Teacher ...

You can use these handy scaled cut-outs of the planets and dwarf planets in the solar system to add some extra decoration to your displays or space-themed classroom! Each planet is accurately scaled to the others to help give children ...

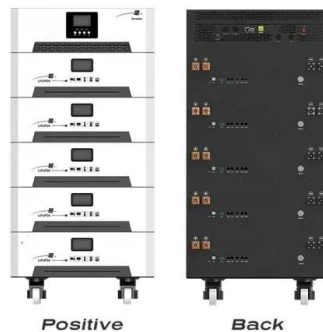


## Student Video: Solar System Size and Distance , NASA/JPL Edu

But, compared to some of the planets in our solar system, it's pretty small. We often see planets displayed as similar in size, like this, to make details on smaller planets easier to see. In reality, the size of planets compared to each other looks more like this.

## How Big Are the Planets in Our Solar System? , STEM Activity

The rocky planets are all smaller than the gas planets; they are made of denser material. The next four--Jupiter, Saturn, Uranus and Neptune--are gaseous planets. Jupiter is the largest, its radius is more than 11 times larger than Earth's radius, followed by Saturn, whose radius is about 9.5 times large than Earth's radius.



## Vertical scaling -- Database Scaling -- PlanetScale

Vertical scaling is essentially increasing the specs of the machine your server is running on. This is an easy way to get scalability gains, but of course comes at a cost. A query cache can be added to your DBMS infrastructure to improve query response times and



### Student Activity: Comparing the Sizes of Planets and Their ...

Scaled planet size (cm) (1 cm = 1000 km)  
 Diameter of inflated balloon (cm) small Mercury 4879 4.9 5 small Mars 6794 6.8 7 medium Venus 12104 12.1 12 medium Earth 12756 12.8 13 large Neptune 49530 49.5 49 large Uranus 51120 51.1 51 extra large



### PlanetsConfig

If the scaled space planet (the planet as seen from high orbit or map view) should have flat, uniform atmospheric scattering, or the scattering should respect the planet's features (mountains etc), see comparison: Also, in some cases where the planet's model

### Module 1 - Lesson 1 - Ana Marie Larson

Figure 1.1.5: Each scaled planet has a Braille label. The Earth has the Moon attached with a length of string showing the relative distances at this scale. Scaled solar system distances and sizes with the Sun's diameter scaled to 1.5 meters. Planet 6 km) 4,900



### Planet Sizes and Locations in Our Solar System

Jupiter Jupiter is the largest planet in the solar system. It's about 11 times wider than Earth with an equatorial diameter of 88,846 miles (about 142,984 kilometers). Jupiter is the fifth planet from the Sun, orbiting at an average distance of 483.7 million miles (778 million kilometers). (778 million kilometers).



### 7 Options for Creating Solar System Scaled Models

2.) Use Cheerios Cereal for Planet Size. Provide students with a chart that tells them the diameter of each planet. Then, explain the scale - that 1 inch = 1 km. With this said, 1 piece of Cheerios Cereal will equal 1/2 inch or 1/2 km. Discuss how many pieces would



#### [Solar System Scale Model Calculator](#)

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 ...

#### scaled planets and orbits

Pluto, the smallest planet, would be about the size of the period at the end of this sentence. Here are the rest of the planets; their scale sizes and orbits : Show me the scale sizes of the planets. To calculate the planet sizes and orbits for our scale model, we



#### The Planets In Order , From The Sun, Information, History

Among the dwarf planets, Pluto was listed as a planet the longest. This all changed in 2006 when the Astronomical Union - IAU - finally decided on the definition of a planet. According to the definition, a planet is a celestial body that is in orbit around the Sun, has enough mass to assume hydrostatic equilibrium - resulting in a round shape, and has cleared ...



### Solar System Scope

Online 3D simulation of the Solar System and night sky in real-time - the Sun, planets, dwarf planets, comets, stars and constellations Contact us: [contact@solarsystemscope](mailto:contact@solarsystemscope) Facebook Newsletter Embed Account ...



SUPPORT REAL-TIME ONLINE MONITORING OF SYSTEM STATUS



### [Build a Solar System Model , Exploratorium](#)

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 ...

### [Scale Solar System Planets Model](#)

This solar system cut-out resource is a great, hands-on activity that will support teaching on the solar system and our place in it. The resource includes size-comparable pictures of each planet, and the sun, from our solar system, which your children can easily cut out and attach string to create a solar system planets model. When your children have put together their ...



### [Real and Scaled Sizes of the Sun and Planets](#)

Real and Scaled Sizes of the Sun and Planets

Planet	Scaled Diameter	Real Diameter	Earth Diameters
Sun	1,392,000 km	139.2 mm	109
Mercury	4,878 km	0.5 mm	0.38
Venus	12,104 km	1.2 mm	0.95
Earth	12,756 km	1.3 mm	1
Mars	6,794 km	0.7 mm	0.53
Jupiter			



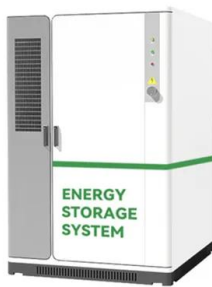
### 31 Solar System Model Project Ideas: A Complete Guide

Scaled distance: (149.6 million km) / (100 million) = 1.496 cm Repeat this process for all other planets, ensuring that each scaled distance accurately reflects their respective positions within our solar system. By doing so, you'll bring a new level of realism and



#### Solar System to Scale: Sun and Planets

Description. It's often hard to fully grasp just how big the planets in the solar system are. 1.3 million Earths could fit in the Sun, but that is hard to picture. A good way to ...



### Solar System to Scale

Sun is scaled one meter (39") in diameter. Actual Size of Sun: 1,391,000 km (864,000 mi) AU ("Astronomical Unit") is the average distance between the Sun and Earth: 150 million km (93 ...



### 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, ...



### Scaled Solar System 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.



### Solar System

The planets and other large objects in orbit around the Sun lie near the plane of Earth's orbit, known as the ecliptic. If the Sun-Neptune distance is scaled to 100 metres (330 ft), then the Sun would be about 3 cm (1.2 in) in diameter (roughly two-thirds the the

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

Materials 1. Learn about sizes and distances in our solar system 2. Decide what kind of model you want to build 3. Choose where your model solar system will go 4. Calculate scale distances 5. Calculate scale planet sizes 6. Calculate combined scale distance



### THE SCHOOLYARD SOLAR SYSTEM

The Sun and the nine planets are represented on a set of web pages. Each contains information on an object's true and scaled size and on its distance from the Sun. A dot represents the body's scaled size. (Printers and monitors vary, the dots may not appear at



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