

# Diameter of the solar system





## Overview

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The Solar System formed at least 4.568 billion years ago from the gravitational collapse of a region within a large . This initial cloud was likely several light-years across and probably birthed several stars. As is typical of molecular clouds, this one consisted mostly of hydrogen, with some helium, and small amounts of heavier elements by previous generations of stars.

It is 143.73 billion km from the Sun, thus giving the Solar System a diameter of 287.46 billion km. How big is our Solar System?

Our solar system is so big it is almost impossible to imagine its size if you use ordinary units like feet or miles. The distance from Earth to the Sun is 93 million miles (149 million kilometers), but the distance to the farthest planet Neptune is nearly 3 billion miles (4.5 billion kilometers).

How do astronomers measure the size of our Solar System?

The best way to appreciate the size of our solar system is by creating a scaled model of it that shows how far from the sun the eight planets are located. Astronomers use the distance between Earth and sun, which is 93 million miles, as a new unit of measure called the Astronomical Unit.

What is the largest planet in the Solar System?

Our solar system's largest planet is an average distance of 484 million miles (778 million kilometers) from the Sun. That's 5.2 AU. Jupiter is the largest of the planets, spanning nearly 1.75 millimeters in diameter on our football field scale. Jupiter's diameter is about equal to the thickness of a U.S. quarter in our shrunken solar system.

How big is the Sun?

On this scale, the Sun, by far the largest thing in our solar system, is only a ball about two-thirds of an inch (17 millimeters) in diameter sitting on the goal line — that's about the width of a U.S. dime coin. Considering a typical honeybee is about half an inch long, the fans are going to need telescopes to see the action.



How many astronomical units is 93 million miles from the Sun?

The Earth averages at 93 million miles (150 million kilometres) from the sun, and so one astronomical unit is equal to that number. Visualization of the solar system from the sun to the Oort Cloud. NASA Another definition for where the solar system ends is the edge of the Oort Cloud.

How far does our Solar System extend?

Our Solar System extends much, much farther than where the planets are. The furthest dwarf planet, Eris, orbits within just a fraction of the larger Solar System. The Kuiper Belt, where we find a Pluto, Eris, Makemake and Haumea, extends from 30 astronomical units all the way out to 50 AU, or 7.5 billion kilometers. And we're just getting started.



## Diameter of the solar system



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

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

### How Big is the Solar System?

But the true size of the Solar System is defined by the reach of its gravity; how far away an object can still be said to orbit the Sun. The layout of the solar system, including the ...

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### How Big is Our Solar System? 1

The best way to appreciate the size of our solar system is by creating a scaled model of it that shows how far from the sun the eight planets are located. Astronomers use the distance ...



### List Of The Solar System's 30 Biggest Moons

Biggest To Smallest Here you can learn about the 30 largest moons (by diameter) in the solar system! There are over 180 moons that orbit the planets and dwarf planets. The largest 19 moons in the list below are large enough to have been rounded by their own gravity (this is called being



in hydrostatic equilibrium).).



### Solar system , Definition, Planets, Diagram, Videos, & Facts

4 ???· solar system, assemblage consisting of the Sun --an average star in the Milky Way Galaxy --and those bodies orbiting around it: 8 (formerly 9) planets with more than 210 known ...

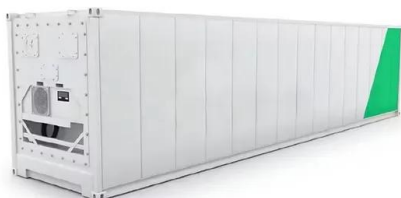
### How Big Is the Solar System?

Our solar system's largest planet is an average distance of 484 million miles (778 million kilometers) from the Sun. That's 5.2 AU. Jupiter is the largest of the planets, spanning nearly 1.75 millimeters in diameter on our ...



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

Fun science activity in which you use playdough and balloons to make a scale model of the planets in the solar system To represent Earth, make a sphere (ball) of play dough with a diameter of 2 cm. The diameter of a sphere is twice the distance from a point on





## Reference Guide Solar System Sizes and Distances

Solar System Sizes and Distances Distance from the Sun to planets in astronomical units (au):  
Planet Distance from Sun (au) Mercury 0.39  
Venus 0.72 Earth 1 Mars 1.52 Jupiter 5.2 Saturn 9.54 Uranus 19.2 Neptune 30.06 Diameter of planets and their



## The Planets in Order of Distance, Size, Mass & More

Mercury is the first planet in our solar system. It is the closest planet to the Sun, located at an average distance of 36 million miles (58 million kilometres) from our star cause this small planet is so close to the Sun's harmful solar winds, it has the thinnest

## Solar System Facts

Our Sun is in a small, partial arm of the Milky Way called the Orion Arm, or Orion Spur, between the Sagittarius and Perseus arms. Our solar system orbits the center of the galaxy at about 515,000 mph (828,000 kph). It takes about 230 ...



## Solar System Facts

Our solar system includes the Sun, eight planets, five officially named dwarf planets, and hundreds of moons, and thousands of asteroids and comets. Our solar system is located in the Milky Way, a barred spiral galaxy with two major ...



## The Solar System

So the diameter of the solar system would be 180AU, by this definition. Scale by Distance to the Farthest Object The farthest known observable object orbiting the Sun is Sedna. It is a dwarf planet that reaches a ...

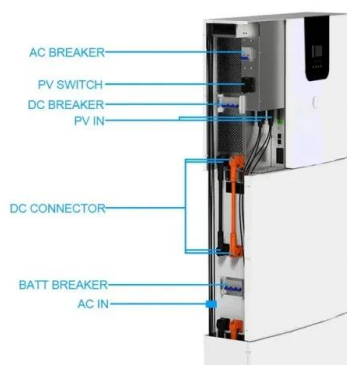


## Planetary Fact Sheet

	MERCURY	VENUS	EARTH	MOON	MARS	JUPITER	SATURN	URANUS	NEPTUNE	PLUTO
Mass (10 <sup>24</sup> kg)	0.330	4.87	5.97	0.073	0.642	1898	568	86.8	102	0.013
Diameter (km)	4879	12,104	12,756	3475	6792	142,984	120,536	...	...	...

## How Big is Our Solar System? 1

How Big is Our Solar System? Our solar system is so big it is almost impossible to imagine its size if you use ordinary units like feet or miles. The distance from Earth to the Sun is 93 million miles (149 million kilometers), but the distance to the farthest(4.5



## How Big is the Solar System?

Our Solar System extends much, much farther than where the planets are. The furthest dwarf planet, Eris, orbits within just a fraction of the larger Solar System. The Kuiper Belt, where we find a



### The size of things - British Astronomical Association

First up is the solar system's largest planet, the giant Jupiter. Jupiter is over 11 times the diameter of the Earth with a scale diameter of 56mm (roughly snooker ball size), orbiting 305m from the Sun.



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

The small planet has a diameter of 4.879 km / 3.032 mi. Venus The second closest planet to the Sun. Venus is on average at a distance of 108 million km / 67 million mi or 0.72 AU away from the Sun. It is the hottest planet of the Solar system since its

### 7.1 Overview of Our Planetary System

An Inventory The Sun, a star that is brighter than about 80% of the stars in the Galaxy, is by far the most massive member of the solar system, as shown in Table 7.1 is an enormous ball about 1.4 million kilometers in diameter, with surface layers of incandescent

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### Solar system , Definition, Planets, Diagram, Videos, & Facts

4 ???· Solar system, assemblage consisting of the Sun and those bodies orbiting it: 8 planets with about 210 known planetary satellites; many asteroids, some with their own satellites; comets and other icy bodies; and vast reaches of highly tenuous gas and dust known as the interplanetary medium.



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

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 Español: Seleccione subtítulos en Español bajo el ícono de configuración. Earth is a



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

3. Choose where your model solar system will go Pick a place to set up your solar system model. This could be across a bedroom wall, along the floor of a hallway or large room, outside in a yard, or down a sidewalk. Keep your choice in mind as you calculate the

### (Factsheet) Diameters Of The Planets In Our Solar System

Each planet in our solar system possesses a distinct diameter, which is a measure of its size or width. For instance, Jupiter, the largest planet, boasts a diameter of approximately 86,881 miles (139,820 kilometers). Saturn follows ...



### Scale Model of the Solar System , Discover the Universe

The best way to understand the true dimensions of the solar system is to create a scale model. Use the tool below to visualize the solar system at various scales. Instructions Choose the size of the Sun you want in your model in STEP 1. The dimensions of the



## Solar System Facts , Information, Size, History and Definition

The solar system consists of the Sun; the eight official planets, at least three "dwarf planets", Then the model Earth would be about 1.3 cm in diameter (the size of a grape). The Moon would be about 30 cm (about a foot) from the Earth. The Sun would be 1.5



### [How big is the Solar System?](#)

One common definition puts the boundary of the Solar System at a place called the heliopause, where the outward pressure of the Sun's solar wind is equalled by the very low interstellar gas pressure. The Voyager 1 robotic spacecraft is currently passing through the heliopause and has measured its distance at 122 au, making the diameter of the entire Solar System twice this ...

## Solar System

Overview Formation and evolution General characteristics Sun Inner Solar System Outer Solar System Trans-Neptunian region Miscellaneous populations

The Solar System formed at least 4.568 billion years ago from the gravitational collapse of a region within a large molecular cloud. This initial cloud was likely several light-years across and probably birthed several stars. As is typical of molecular clouds, this one consisted mostly of hydrogen, with some helium, and small amounts of heavier elements fused by previous generations of stars.



## In Depth , Our Solar System - NASA Solar System Exploration

Our solar system formed about 4.5 billion years ago from a dense cloud of interstellar gas and



dust. The cloud collapsed, possibly due to the shockwave of a nearby exploding star, called a supernova. When this dust cloud collapsed, it formed a solar nebula - a

### Oort Cloud and Scale of the Solar System (Infographic)

Much of the solar system is actually in interstellar space. Informally, the term "solar system" is often used to mean the space out to the last planet. Scientific consensus, however, says the solar system goes out to the Oort Cloud, the source of the comets that swing by our sun on long time scales.



### [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.

### Our Sun: Facts

Our Sun: Facts Our Sun is a 4.5 billion-year-old yellow dwarf star - a hot glowing ball of hydrogen and helium - at the center of our solar system. It's about 93 million miles (150 million kilometers) from Earth and it's our solar system's only star. Without the Sun's





## Milky Way

The Milky Way [c] is the galaxy that includes the Solar System, with the name describing the galaxy's appearance from Earth: a hazy band of light seen in the night sky formed from stars that cannot be individually distinguished by the naked eye. The Milky Way is a barred spiral galaxy with a D 25 isophotal diameter estimated at  $26.8 \pm 1.1$  kiloparsecs ( $87,400 \pm 3,600$  light-years), [10] ...



## How Big Is the Solar System?

While some astronomers are content to claim that the size of the solar system is around 122 AU, others point out that the solar system should really be defined by the reach of its gravity. In other words, if an object can be said to orbit the Sun, then it ...



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