VDB Solar Solutions

# Solar system distance chart

## Overview

Astronomers sometimes divide the Solar System structure into separate regions. The includes Mercury, Venus, Earth, Mars, and the bodies in the . The includes Jupiter, Saturn, Uranus, Neptune, and the bodies in the . Since the discovery of the Kuiper belt, the outermost parts of the Solar System are considered a distinct r.

What is the distance from the sun to planets in astronomical units?

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 distance from the Sun in kilometers (km):.

How do planets' distance from the Sun vary?

The planets' distance from the Sun varies because all the planets orbit the Sun on different elliptical paths. The top row of planets shows the distance in kilometers or miles. The second row of planets dotted on a line illustrates their relative distance from the Sun and each other.

How do we calculate the distance between planets?

For this reason, to calculate the distance, we use the average to measure how far planets are from one another. The Astronomical units (AU) column is the average distance between Earth and the Sun and is the most common way for scientists to measure distance in our Solar System.

How far away are planets from each other?

Sometimes the distances will be closer and other times they will be farther away. The reason for this is that the planets have elliptical orbits and none of them are perfect circles. As an example, the distance between the planet Mercury and Earth can range from 77 million km at the closest point, to as far as 222 million km at the farthest.

Why does the distance between the 8 planets vary?

The distance among each of the eight planets in our Solar System will alter depending on where each planet is in its orbit revolution around the Sun. Depending on the time of year the distance can also differ significantly. The main reason for the planets to vary their distance is due to elliptical orbits.

How far away is the Sun from Earth?

That's a more manageable number than 25 trillion miles, 40 trillion kilometers or 272,000 AU. Light years also provide some helpful perspective on solar system distances: the Sun is about 8 light minutes from Earth. (And yes, there are also light seconds!)

# Solar system distance chart

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

Size and Distance Size and Distance Our solar system extends much farther than the eight planets that orbit the Sun. The solar system also includes the Kuiper Belt that lies past Neptune's orbit. This is a sparsely occupied ring of icy bodies, almost all smaller.

## How Big is Our Solar System? 1

Problem 1 - The table below gives the distance from the Sun of the eight planets in our solar system. By setting up a simple proportion, convert the stated distances, which are given in millions of kilometers, into their equivalent AUs, and fill-in the last column of the

## 3D Diagram of the Solar System

The chart above shows the Sun at the centre, surrounded by the solar system's innermost planets. Click and drag the chart to rotate the viewing angle, or use your mouse wheel to zoom in and out. Alternatively, you can use the slider below the chart

## Solar System, in Perspective

This artist's concept puts solar system distances 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 the Earth, which is about 93 million

**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

**Planetary Fact Sheet**

Planetary Fact Sheet in Metric Units Planetary Fact Sheet in U.S. Units Index of Planetary Fact Sheets - More detailed fact sheets for each planet Notes on the Fact Sheet - Explanations of the values and headings in the fact sheet Schoolyard Solar System - Demonstration scale model of the solar system for the classroom


Distance, Brightness, and Size of Planets

Astronomers sometimes divide the Solar System structure into separate regions. The inner Solar System includes Mercury, Venus, Earth, Mars, and the bodies in the asteroid belt. The outer Solar System includes Jupiter, Saturn, Uranus, Neptune, and the bodies in the Kuiper belt. Since the discovery of the Kuiper belt, the outermost parts of the Solar System are considered a distinct r...

Solar System Size and Distance

How big are the planets and how far away are they compared to each other? 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


**Our Solar System**

How big is our solar system? To think about the large distances, we use a cosmic ruler based on the astronomical unit (AU). One AU is the distance from Earth to the Sun, which is about 150 mil-lion kilometers or 93 million miles. The area of the Sun's influ

**The Solar System**

Gravity o The gravitational force of the Sun keeps planets in orbit around the Sun and controls the rest of the motion of the solar system. o The mass of an object and the distance between objects determine the force of gravity. Inertia and gravity work together. o The

**TrueSizeOf: True Size & Distance of Stars and Planets**

TrueSizeOf: Explore stars, planets, galaxies, black holes and the solar system's true size and distance using Google Maps. How big is your country on the world map? Compare maps and explore the true size of countries and planets. Welcome to our website

**Planets in Order From the Sun , Pictures, Facts, and ...**

Our planetary system is the only official solar system in the Universe, but astronomers continue to find thousands of other stars with planets orbiting them in our galaxy. Without the sun's gravity, every planet and object in the solar ...

**Our Solar System**

How big is our solar system? To think about the large distances, we use a cosmic ruler based on the astronomical unit (AU). One AU is the distance from Earth to the Sun, which is about 150 mil-lion kilometers or 93 million miles. Particles from the Sun can

**Solar System Data l Distances between planets & moons**

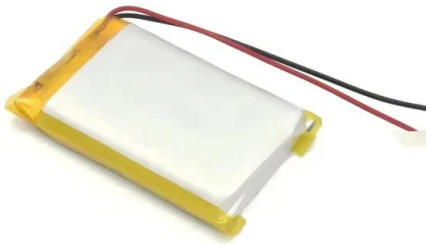
Home » General » Appendix 1a: Solar System Data October 17, 2019 September 25, 2019 Note: The data on these pages has been compiled from a number of sources none of which agree on all items. Some of this data, especially for the smaller satellites, is

**Solar System Sizes**

This artist's concept shows the rough sizes of the planets relative to each other. Correct distances are not shown. Mercury - 1,516mi (2,440km) radius; about 1/3 the size of Earth Venus - 3,760mi (6,052km) radius; only slightly smaller than Earth Earth - 3

## Planets In Order: By Size And Distance From The Sun

Our solar system revolves around the sun, hence the name solar system. In our system, we have 4 terrestrial planets, 4 gas giants, and a mysterious 9th planet. Let's go over them, but first, here's a quick rundown of each planet in order of size and distance from the sun.



## Cosmic Distances

Light years also provide some helpful perspective on solar system distances: the Sun is about 8 light minutes from Earth. (And yes, there are also light seconds!)And because light from objects travels at light speed, when you see the Sun, or Jupiter or a distant star, you're seeing it as it was when the light left it, be that 8 minutes, tens of minutes or 4.3 years ago.

## Distance Between Planets Of The Solar System , KM & Current ...

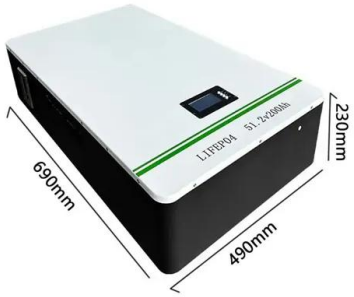
The Astronomical units (AU) column is the average distance between Earth and the Sun and is the most common way for scientists to measure distance in our Solar System. Below is a table of the distances between each of the planets in our solar system.


## Solar System

Distance to Galactic Center 24,000-28,000 ly [9] Orbital speed 720,000 km/h (450,000 mi/h) [10] Orbital period ~230 million years [10] The Solar System [d] is the gravitationally bound system of the Sun and the objects that orbit it. [11] It formed about 4.6 billion

## 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 ...

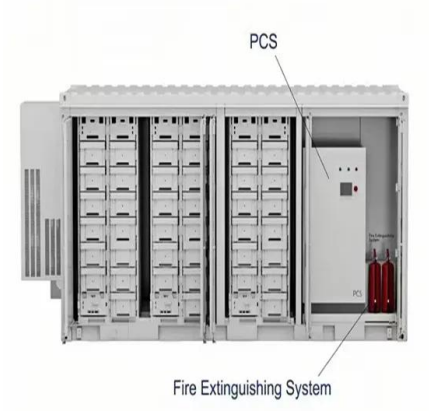



**Planetary Fact Sheet**

MERCURY VENUS EARTH MOON MARS JUPITER SATURN URANUS NEPTUNE PLUTO Mass (10 24 kg) 0.330 4.87 5.97 0.073 0.642 1898 568 86.8 102 0.0130 Diameter (km) 4879 12,104 12,756 3475 6792 142,984 120,536 ...

**Planet Sizes and Locations in Our Solar System**

Which is smallest? What is the order of the planets as we move out from the Sun? This is a simple guide to the sizes of planets based on the equatorial diameter - or width - at the equator of each planet. Each planet's ...


## 19.1 Fundamental Units of Distance

From the various (related) solar system distances, astronomers selected the average distance from Earth to the Sun as our standard "measuring stick" within the solar system. When Earth and the Sun are closest, they are about 147.1 million kilometers apart; when Earth and the Sun are farthest, they are about 152.1 million kilometers apart.

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

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 ...

**Planet Distance Chart**

Planet Distance Chart Calculate the scale value for each Solar System object using a scale factor of 10 centimeters per astronomical unit (AU). 1 AU is equal to about 150 million kilometers (93 million miles)! Object AU Scale Value (centimeters) Bead Color

**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


**Solar System**

Graph functions, plot points, visualize algebraic equations, add sliders, animate graphs, and more. Solar System Save Copy Log In Sign Up Graph shows orbits of planets, as well as Pluto, Ceres, Halley's Comet and more. t1 is time in Earth Days

**The Solar System**

Knowing the distances to objects in our solar system, tells us how big it is - and how far away our neighboring planets are. How far the planets are from the Sun is particularly meaningful - here's why. If youplace a candle at arm's length in an otherwise dark room

**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.

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