

Distance to the planets





Distance to the planets



Order of the Planets by the Distance From the Sun

The distance of each planet from the sun is a determinant of its basic composition. Mars and the planets inside its orbit are known as terrestrial planets because they are composed mostly of rock. The ones outside its orbits are known as gas giants or, in the case of the two outermost planets, ice giants.

Orbits and Kepler's Laws

The planet follows the ellipse in its orbit, meaning that the planet-to-Sun distance is constantly changing as the planet goes around its orbit. Kepler's Second Law: The imaginary line joining a planet and the Sun sweeps ...



Proxima Centauri (Alpha Centauri C): Facts, Distance, Planets

The planet orbits Proxima Centauri from a distance of 0.0289 ± 0.0002 astronomical units (4 million kilometres) with an eccentricity of 0.04. It takes about 5.122 days to complete an orbit. With a mass only 25% that of Earth, it ...

[Planets of our Solar System](#)

Learn about the different planets in our Solar System. Find out their size, temperature and distance from the Sun in this Scotland Second Level Science article. The planets Every object in our



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.



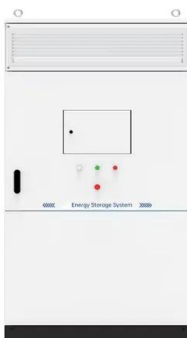
Solar system planets, order and formation -- a guide , Space

The order of the planets in the solar system, starting nearest the sun and working outward is the following: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune and then



[What Are the Solar System Planets in Order?](#)

You know Saturn and Venus and Mars. Can you put the eight planets of the solar system in the correct order? There are several ways to do this. Or you could order the planets by weight (mass). Then, the list from most ...





Planet Orbits

The more distant planets (Mars, Jupiter, Saturn, Uranus and Neptune) which move slower and have a greater distance to travel, complete just a fraction of their orbits in this time. Mercury (4.2 Orbits)



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Our Solar System: Animated Size and Distance Comparison of

All objects 1550x larger, so you can see them! The eight planets in our solar system each occupy their own orbits around the Sun. They orbit the star in ellip

Mercury Facts

Introduction Mercury's surface temperatures are both extremely hot and cold. Because the planet is so close to the Sun, day temperatures can reach highs of 800°F (430°C). Without an atmosphere to retain that heat at night, temperatures can dip as low as -290°F (-180°C). Despite its proximity to the Sun, Mercury is not the hottest [...]



Visiting the Planets at the Speed of Light!

planets. Use that fact that the travel time from the Sun to Earth is 8 ½ minutes. Give your answer to the nearest tenth, in units of minutes or hours, whichever is the most convenient unit. Planet Distance from Sun in Astronomical Units Light Travel Time Venus 0.



3.2: The Laws of Planetary Motion

In 1619, Kepler discovered a basic relationship to relate the planets' orbits to their relative distances from the Sun. We define a planet's orbital period, (P), as the time it takes a planet to travel once around the Sun. Also, recall that a planet's semimajor axis, a,



Distances of the Planets From the Sun in Light Years

Planets are far closer to Earth than distant galaxies, so seeing a planet through a telescope or in a photo is not such a distant view into the past. In fact, it's common to measure planet distances from the sun in light minutes or light hours as opposed to light years, since those numbers are smaller and easier to comprehend.

In Depth , Mars - NASA Solar System Exploration

Introduction Mars is no place for the faint-hearted. It's dry, rocky, and bitter cold. The fourth planet from the Sun, Mars is one of Earth's two closest planetary neighbors (Venus is the other). Mars is one of the easiest planets to spot in the night sky - it looks like a



How Long Would It Take To Travel To Each Planet?

At its closest approach to Earth, Saturn is 746-million miles (1.2-billion kilometres) away. At this distance, it would take you 622-days or 1.7-years to reach Saturn. Uranus and Neptune Neptune is the furthest planet from the Earth. Image credit: NASA/JPL .





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



In Depth , Our Solar System - NASA Solar System Exploration

Our planetary system is called "the solar system" because we use the word "solar" to describe things related to our star, after the Latin word for Sun, "solis." Size and Distance Size and Distance Our solar system extends much farther than the eight planets that

[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 ...



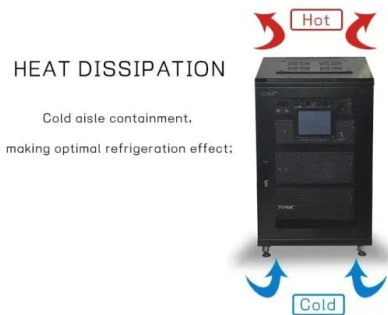
Alpha Centauri: Star System, Distance, Planets, Location, ...

The planet has a mass of about 7 Earth masses and orbits Proxima from a distance of about 1.49 astronomical units. It takes 1,928 days (5.28 years) to complete an orbit around the star. The planet may have a large ring system around it, detected in June 2020.



How Far Are The Planets From The Sun?

The eight planets in our solar system each occupy their own orbits around the Sun. They orbit the star in ellipses, which means their distance to the sun varies depending on where they are in

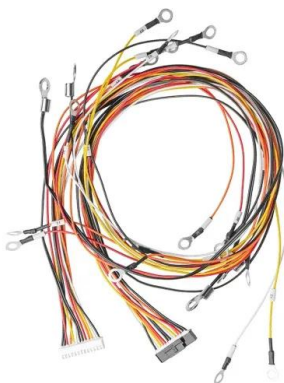


In Depth , Earth - NASA Solar System Exploration

This unit provides an easy way to quickly compare planets' distances from the Sun. It takes about eight minutes for light from the Sun to reach our planet. Orbit and Rotation Orbit and Rotation As Earth orbits the Sun, it completes one rotation every 23.9 hours. It

Solar System Facts

One astronomical unit (or AU) is the distance from the Sun to Earth, or about 93 million miles (150 million kilometers). The Oort Cloud is the boundary of the Sun's gravitational influence, where orbiting objects can turn around and return ...



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



Planet Compare

NASA's real-time science encyclopedia of deep space exploration. Our scientists and far-ranging robots explore the wild frontiers of our solar system. This site is maintained by the Planetary Science Communications team at NASA's Jet Propulsion Laboratory for NASA's Science Mission Directorate.



[3.1: The Laws of Planetary Motion](#)

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In Depth , Our Solar System - NASA Solar System Exploration

One astronomical unit (or AU) is the distance from the Sun to Earth, or about 93 million miles (150 million kilometers). The Oort Cloud is the boundary of the Sun's gravitational influence, where ...



Encyclopedia

Planet	minimal distance in AU	minimal distance in millions of km	maximal distance in AU	maximal distance in millions of km
Venus	0.266	39.79	1.736	259.71
Mars	0.372	55.65	2.671	399.58
Mercury	0.552	82.5	1.446	216.3
Sun	0.983	147	1.	



Cosmic Distances

Distances between the planets, and especially between the stars, can become so big when expressed in miles and kilometers that they're unwieldy. So for cosmic distances, we switch to whole other types of units: astronomical units, light years and parsecs.



[Order Of the Planets From The Sun](#)

Uranus is the seventh planet from the sun at a distance of about 2.9 billion km (1.8 billion miles) or 19.19 AU. Though it is classified as a "gas giant", it is often referred to as an "ice



The Planets In Order , From The Sun, Information, ...

The planets in order from the Sun based on their distance are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune. The planets of our Solar System are listed based on their distance from the Sun. There are, ...



In Depth , Sun - NASA Solar System Exploration

Size and Distance Our Sun is a medium-sized star with a radius of about 435,000 miles (700,000 kilometers). Many stars are much larger - but the Sun is far more massive than our home planet: it would take more than 330,000 Earths to match the mass of the Sun, and it would take 1.3 million Earths to fill the Sun's volume.





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