

## Plan:

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## About Plarsets

Plantets are the Carge celestial bodies which revolve stround the sun in closed elliptical paths called orbits. The planets shine because they reflect the lightit of the sun which falls on them. The easiest tway to distinguish planets from the stars in the night sey is that the stars twinkle at night but the planets do not twinkle at night. The planets move around the sun from west to east, so the relative positions of the planets in the night sky keep changing day by day. The planets are very small as compared to the sun or other stars.

There are eight planets in the solar system 1. Mercury
2. Venus 3. Earth 4. Mars
5. Jupiter
6. Saturn
7. Uranus
8. Neptune


## Outer planets

$\perp$ Supiter, Saturn, Uramus and Neptune are called outer plancts. The first four outer planets are very giant, They are made of hydrogen and helium gases and not of rock and metal.

All the planets revolve around the sun and also rotate on their axis. Some important facts and figures about eight planets of the solar system are given on the next sfide.

## Venus

Venus is the second planet f om the earth Venus is slightly smaller than the earth. Venus is a rocky planet. The planet Venus has a dense atmosp, re which consists almost entirety of carbon dioxide gas. The cloudy atmosphere of Venus is an excellent reflec or of sun light. The planet Venus is the brightest obje tin the night skyy(except the moon).Being quite near to the sun, the planet Venus is very hot. The planet wo us also gets heated excessively by the trapping of the sin's heat rays by carbon dioxide gas present in its atmo sphere which is also called green house effect The max mum temperature on the planet is $480^{\circ} \mathrm{C}$.

## Earth

Earth isc it whind planet from the earth. When ouner space virth apopears to 6 and dreen be sund the reflection of sunlight from watex ond tand on-th) surface. The
 like nutrogen, oxygenterne Proxide, noble gases, water vapok and some ozone.

## to zenith for Ames



## Vernal Ectuinox



Autumnal Equincx

## Mars

Mars is the fourth plantet from the sun.Mars is also called the Red planet because its surface appears red. The red color of Mars is caused by the presence of hydrated iron oxide compaund on its soic.
Of all of the planets, Mars is most like the Earth. Mars is a rocky planet. Mars has a thin atmosphere as compared to the Earth. The thin atmosphere of mars contains mainly carbon dioxide with small amounts of nitrogen, oxygen, noble gases and water vapour.

## Jupiter

Jupiter is the fifth planet from the earth. Jupiter is the biggest planet of the solar system. The diameter of Jupiter is 11 times the diameter of the Earth and mass is about 318 times that of the Earth.Because of its very big size, Jupiter can be seen easify in the night sky. Jupiter is made mainly of hydrogen and helium gases. Jupiter has a very deep atmosphere. The atmosphere of the Jupiter consists of hefium, hydrogen, methane and

## Saturn

Saturn is the sixth planet from the sun. Saturn is somewhat smaller in size and mass than mintier. Saturn is the second biggest planet in the solar systeminemarin of Saturn is almost double that of Jupiter The chemical comp. sion of Sat is very similar to th of Jupiter. Thus, Sa $n$ is made up mainly of hyd gen and helium gas The atmosphere of Saturn consists of hydrogen helium, methane ammonia gases.Satum no solid surface. The surface of Sat in is liquid hydrogen. Below the surface is frozen hydrogen.

## Uranus

Uranus is the seventh planet fromethe sim. Uranus was the first planet to have been discovered withtireppof a :telescope. Uranus was discovered with the Texan Herschel in the year 1781. Though the dial eves of Un is almost fol times that of the Earth, it appears as a disc though a telescope. This is becouse Uranus is very far off from one earth The distance of Uranus rathe sun -is almost double that of the Saturn. After Jupiter and Sateen, Uranus is the third biggest planet in

## Neptune

Neptune is the cugnth planet from the sun. It lies beyond the Uramis. Neptune is the second planet which is discovered with the help of telescope.Neptune was the first planet to be discovered as a result of predictions. Neptune was discovered in 1846 as a result of the effect of its gravitational pull on Uranus. The astronomers noticed that the planet Uranus was not moving in its orbit around the sun exactly as expected.

## Some important facts about planets

Name of Diameter Distance Time taken to turn no.of Planet of planet from sun once on its axis moons Mercujy $4880 \mathrm{~km} 58 * 10_{6} 58$ days Venus 12100 km 108*106 225 days None
Earth 12760 km 150*106 $3561 / 4$ days 1
Mars 6780 km 228*106 687 days 2

Jupiter $142800 \mathrm{~km} 778 * 10_{6} \quad 113 / 4$ years 28
Saturn 120000km 1427*106 29 1/2 years 30
Uranus 50800 km 2870*106 84 years 21
Neptune 48600 km 4504*106 165 years

