



VENUS



More than 1,000 volcanoes or volcanic centers larger than 20 km in diameter dot the surface of Venus. There may be close



Venus is the brightest thing in our Solar system apart from the Sun + Moon



This is Venus's surface bit different from Earths!

VENUS
Venus, named after the goddess of love and beauty, is the "sister" planet of Earth, because their sizes, masses and densities are similar. But it is inhospitable, because the planet is choked with a thick, dense acid atmosphere. It works like a greenhouse and produces high surface temperatures and makes telescopes observations from Earth impossible.



On June 8th 2004 Venus passed directly between Earth and the sun appearing as a large black dot travelling towards the sun's disk. This event is known as a transit of Venus and it's very rare. The last one was in 1982. The next one is in 2112, but after that you will have to wait until 2117. While no longer of great scientific importance as it was in the past.

Orbit

Venus is closer to the sun than any other planet except Mercury. It is 93 million miles from earth and 36 million miles from Mercury. It travels in a circular orbit!

At first glance, if Earth had a twin, it would be Venus. The two planets are similar in size, mass, composition, and distance from the Sun. But there the similarities end. Venus has no ocean and is covered by thick, rapidly spinning clouds that trap surface heat, creating a scorched greenhouse-like world with temperatures hot enough to melt lead and pressure so intense that standing on Venus would feel like the pressure felt 900 meters deep in Earth's oceans. These clouds reflect sunlight in addition to trapping heat. Because Venus reflects so much sunlight, it is usually the brightest planet in the sky.



Even through the telescope, Venus reveals a few secrets. The whole planet is surrounded by thick blankets of clouds, so the only way to discover what lies beneath is to go there!

1 Earth day is 243 Venus days!
There are lots of Volcanoes on Venus!
There are lots of poisonous gases too!



If an Ocean was ever on Venus it would have boiled away!

Venus has lots of Volcanic Rocks!

Venus is very rocky, as the winds in the atmosphere can reach 350km per hour! The temperature can reach 480 degrees!

Venus is scorched with a surface temperature of about 482° C (900° F). This high temperature is primarily due to a runaway greenhouse effect caused by the heavy atmosphere of carbon dioxide. Sunlight passes through the atmosphere to heat the surface of the planet. Heat is radiated out, but is trapped by the dense atmosphere and not allowed to escape into space. This makes Venus hotter than Mercury.



Venus, the jewel of the sky, was once known by ancient astronomers as the morning star and evening star. Early astronomers once thought Venus to be two separate bodies. Venus, which is named after the Roman goddess of love and beauty, is veiled by thick swirling cloud cover.

Fast Facts

1 Orbit of Sun	224.701 Days
1 Rotation	243.16 Days
Mass	81% of Earth
Volume	86% of Earth
Escape Velocity	37,498 km/h (23,300 mph)
Distance From Sun	107 million kilometers (67 million miles)
Average Temperature	449°C (850° F)

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