

Learn about Mars, the fourth planet from the Sun, and its physical characteristics, climate, and history. Explore the latest missions, rovers, and discoveries by NASA and other agencies.

Eris is one of the largest and farthest dwarf planets in our solar system, with a small moon named Dysnomia. Learn about its discovery, orbit, rotation, surface, atmosphere, and role in the debate over planet definition.

The seventh planet from the Sun with the third largest diameter in our solar system, Uranus is very cold and windy. The ice giant is surrounded by 13 faint rings and 27 small moons as it rotates at a nearly 90-degree angle from the plane of its orbit.

Explore the solar system in 3D with the RPS 3D Viewer, a web-based tool that lets you view and manipulate images of planets, moons, asteroids, comets and more. Learn about the features, missions and discoveries of each object with interactive resources and news.

A planet is a celestial body that (a) is in orbit around the Sun, (b) has sufficient mass for its self-gravity to overcome rigid body forces so that it assumes a hydrostatic equilibrium (nearly round) shape, and (c) has cleared the neighbourhood around its orbit.

Our solar system consists of our star, the Sun, and everything bound to it by gravity - the planets Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune; dwarf planets such as Pluto; dozens of moons; and millions of asteroids, comets, and meteoroids.

Pluto is a dwarf planet with an equatorial diameter of about 1,477 miles (2,377 kilometers) and an average distance of about 3.7 billion miles (5.9 billion kilometers) from the Sun. Learn more about Pluto's namesake, potential for life, moons, rings, formation, structure, surface, atmosphere, and magnetosphere.

Learn about Venus's thick atmosphere, which traps heat and makes it the hottest planet in our solar system. Find out how Venus's surface, clouds, and potential for life are related to its atmosphere and orbit.

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