Mars

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Position from the sun, distance from the sun in km, size(diameter) as compared to earth, 2 or more pictures.

“At its farthest distance (aphelion), mars is 154 million miles (244 million km) from the sun. At it’s closest (perihelion), mars is 128 million miles (206 million km) distant. On average, the distance to mars from the sun is 141 million miles (228 million km).

“Mars (diameter 6790 km) is only slightly more than half the size of the earth (diameter 12750 km). Note the difference in color between the two planets. Almost 70% of earth’s surface is covered by liquid water.”
"Mars has two natural satellites, discovered by Asaph Hall in 1877. The innermost of these, Phobos is about (7 miles km) in diameter and orbits the planet with a period far less than Mars’s period of rotation (7 hours, 39 minutes), causing it to rise in the west and set in the east."

Names: moon, Phobos, Deimos.
Surface Features and Composition

Rocks and Elements:

Mars is made up of basaltic rock, dust, oxidized iron, and ice.

Features:

Volcanoes, canyons, and craters are all over the surface. The tallest mountain would be Olympus Mons, the biggest in the Solar System. Valles Marineris is the result of material collapsing between hotspots.
Revolution and Rotation in Earth days or years, composition of the atmosphere

1.88 year revolution
1.03 day rotation period

Composition of the atmosphere

96% Carbon dioxide
1.93% Argon
1.89% Nitrogen
0.145% Carbon Monoxide
Fun information and interesting facts

Mars is named after the Roman god of war because of the blood-red color of the planet.

The Chinese call Mars “fire star” and the Egyptian priests called it “Her Desher” which means the “Red One”.

Olympus Mons is a shield volcano it is 21 km high and 600 km in diameter, evidence shows that it still may be active.
Fun information and interesting facts

Mars has huge dust storms due to the fact that the planet has an more elongated orbital path

Mars has an oval shaped orbit

Mars is the only other planet besides Earth that has polar ice caps

The Northern cap is called Planum Boreum

The Southern cap is called Planum Australe
Fun information and interesting facts

The two moons of Mars Phobos and Deimos were written in the book Gulliver’s travels 151 years before their discovery.

Mars does not have a magnetic field but scientist believe there was one 4 billion years ago.

Giovanni Schiaparelli believed Mars was home to intelligent life because of the lines or grooves were not naturally occurring.
A common name for Mars would be “The Red Planet” because it comes from its reddish appearance, which has to do with the amount of iron oxide prevalent on its surface.

Ares is the God of War for the Greeks where Mars is the same except for the Romans. The difference here is that Mars was more revered by the Romans, and Ares was more hated. Ares was the God of War, Murder, and Bloodshed.

Unlike Ares, Mars was the second most important god to the Romans, under Jupiter. He was originally a god of agriculture but then became a god of war, which was when the Romans identified him with the Greeks god Ares. He was different then Ares because he was the god of agriculture and Ares was never more then just a god of war and battle.
Travel time from Earth, effects the sun has on Mars (Sunlight and Magnetic Field)

The total travel time from Earth to Mars takes about between 150-300 days depending on the speed of the launch or position of the planet.

Mars is a weird planet because space probes doesn’t have any evidence of structured magnetic field line, only traces.

Based on the distance of a planet from the sun affects the length of a planet’s year because it has a greater distance to travel. Simple physics; the farther away something is from a point, the longer it will take to revolve around that point or reach that point. For future reference, here is Mars in the planet years in earth days. Mars: 687 Earth days takes Mars to orbit around the sun roughly twenty-four hours and thirty-seven minutes (24 Hours & 37 Mins) Also it takes Mars about 687 Earth days to have a full year
Mars’ Artificial Satellites

Inactive Satellites
- Mars-2, 1971 (USSR)
- Mars-3, 1971 (USSR)
- Mariner 9, 1971 (USA)
- Mars-5, 1973 (USSR)
- Viking 1, 1975 (USA)
- Viking 2, 1975 (USA)
- Phobos-2, 1988 (USSR)
- Mars Global Surveyor, 1996 (USA)

Active Satellites
- 2001 Mars Odyssey, 2001 (USA)
- Mars Express, 2003 (Russia)
- Mars Reconnaissance Orbiter, 2005 (USA)
- Mars Orbiter Mission, 2013 (India)
- MAVEN, 2013 (USA)
- ExoMars Trace Gas Orbiter, 2016 (Russia)