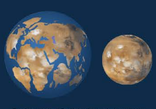
MARS QUICK FACTS

FOR MORE INFO, VISIT:
MARS.NASA.GOV

SIZE
(equatorial diameter)

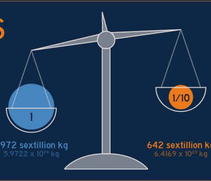
Earth: 1
Mars: 1/2
Earth's Moon: 1/4

7926 miles (12756 km) | 4220 miles (6792 km) | 2159 miles (3475 km)



The land area of Earth is similar to that of Mars.

MASS
(amount of matter)



5972 sextillion kg (5.972×10^{24} kg)

642 sextillion kg (6.417×10^{23} kg)

VOLUME
(amount of space occupied)

Mars has about 15% of Earth's volume. To fill Earth's volume, it would take over 6 Mars volumes.

260 billion mi³ (1.1 trillion km³)

39 billion mi³ (163 billion km³)

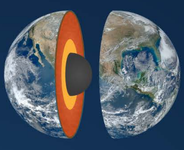
DENSITY
(average)

Mars is about 71% as dense as Earth.

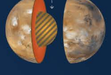
5.5 g/cm³

3.9 g/cm³

STRUCTURE



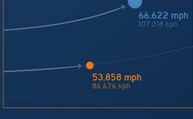
Scientists are not yet certain if the core of Mars is solid, liquid, or in two distinct sublayers, like Earth's. Future measurements will tell us more.



Crust | Mantle | Liquid Outer Core | Solid Core

DISTANCE
(average distance from orbit path to the Sun)

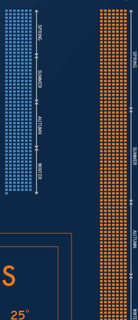
SPEED
(velocity relative to the Sun)



YEAR
(approximately)

365 Earth Days

687 Earth Days



(Northern hemisphere seasons shown)

DAY
(approximately)

24 HOURS (23.93 SIDEREAL)

24 HOURS + 40 MINS (24.67 SIDEREAL)

TILT / SEASONS
(approximate tilt)

23.5°

Similar tilts mean that Mars has seasons just like Earth. But since Mars' year is almost twice as long, its seasons are longer too.

Because of Mars' elliptical orbit, some seasons are longer than others. (The northern hemisphere has a longer spring and summer, while the southern hemisphere has a longer autumn and winter.)

25°

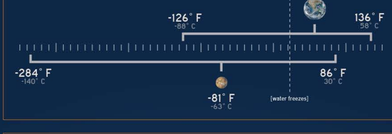
ATMOSPHERE
(characteristics and approximate composition)

OVER 100 TIMES DENSER THAN MARS' ATMOSPHERE

78% NITROGEN
21% OXYGEN
1% OTHER

96% CARBON DIOXIDE
<2% ARGON
<2% NITROGEN
<1% OTHER

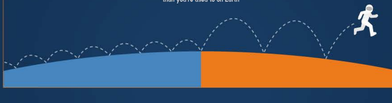
TEMPERATURE
(approximate average and high/low ranges)



WEIGHT
(effect of gravity on matter)

Weight is a measure of gravity's effect on mass. It varies based on factors like your mass, the planet's gravity, and the distance between you and the planet's center.

If you weighed 100 lbs on Earth, you would weigh only 38 lbs on Mars!

GRAVITY

On Mars, you'll experience
62.5% less gravity
than you're used to on Earth!