Text from animation, “How does Mars compare to Earth?”

[https://youtu.be/xlWgxSnVcwU](https://youtu.be/xlWgxSnVcwU" \t "_blank)

Lets look broadly at how Mars compares to Earth. 3

First, on average Mars is 49 million miles farther away from the sun than the Earth.

Mars is moving slower than the Earth and has a longer orbit path.

The Earth is revolving or traveling around the sun at over **66**,000 mph and completes one orbit in 365 days.

Mars is revolving around the sun at about **54**,000 miles per hour and travels a much longer path than Earth. As a result Mars takes 687 Earth days to complete one orbit.

Mars and Earth have similar tilts. *This means that both Earth and Mars have winter, spring, summer and fall, but, since Mars is farther from the sun, it's seasons are all much colder.*

Mars turns or rotates slightly slower on its axis than the Earth does. As a result one day on Mars is 24 hours and 40 minutes

The diameter of Mars is about half that of Earth. It is the second smallest planet in the solar system

Mars has 63% less gravity than Earth. This means that you will weigh 63% less on Mars.   
For example, if you weigh 250 lb on earth, on Mars you would weigh only 156 lb.

It also means it will be easier to jump higher

Mars is much colder than earth with an average temperature of MINUS 81°Farenheit. 134 That’s over 100° below freezing. 137 *Mars, on average, is colder than the Antarctic and drier than the Sahara.*

Humans could not survive breathing in the Martian atmosphere because it is 96% Carbon Dioxide. Earth’s atmosphere is 78% Nitrogen and 21% Oxygen.

In the past century we have learned much about Earth’s interior, but we have little direct evidence for what is inside of Mars.

Geophysical monitoring instruments will soon be deployed to Mars. Hopefully, these will help to provide evidence to answer the many questions we have about what lies below the surface of the red planet.