

JOURNEY TO MARS

ALL YOU NEED TO KNOW



WHY GO TO MARS??

Mars is the most similar to Earth.

How you might ask?

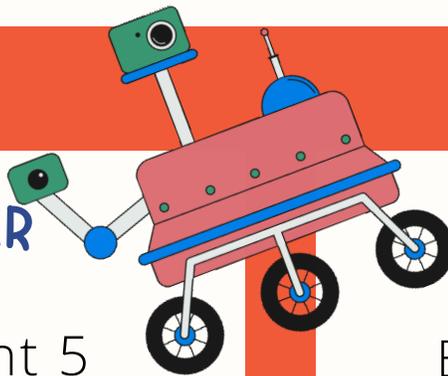
- There are pictures of dried rivers and lakes.

Water = Life



- Martian Atmosphere is similar to Earth's atmosphere.

NASA'S ROVER



NASA has sent 5 rovers to MARS so far.

- Sojourner
- Spirit
- Opportunity
- Curiosity
- Perseverance

Each rover has a different structure and capabilities. Every rover had a different job on Mars.

SOJOURNER

Landed on Mars in
July 1997

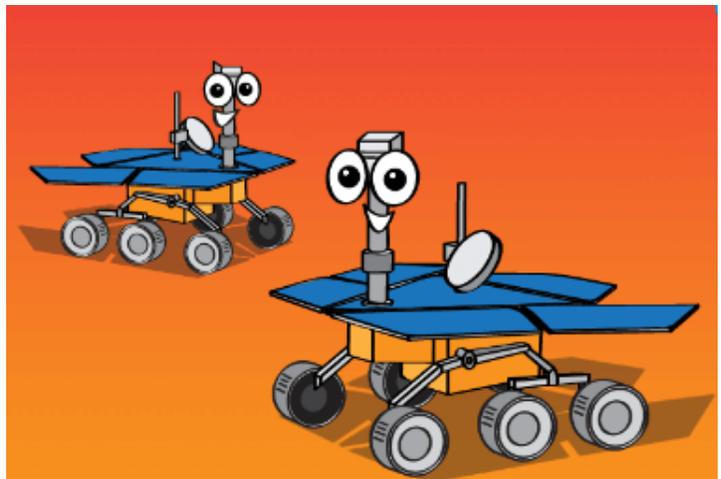
First Wheeled
robot to "walk" on
Mars



SPIRIT AND OPPORTUNITY

Landed on Mars in
January 2004

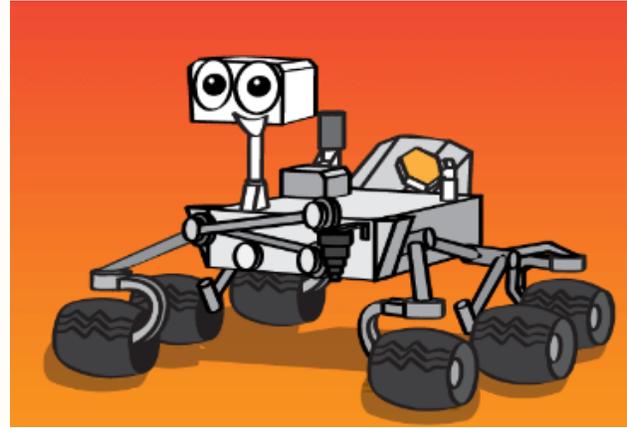
These two rovers
are twins. They
were on opposite
sides of the
planet.



They found evidence of
water on Mars.
Grey hematite was found
which usually forms
wherever there is water

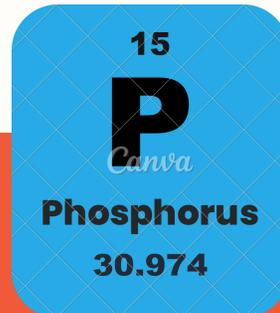
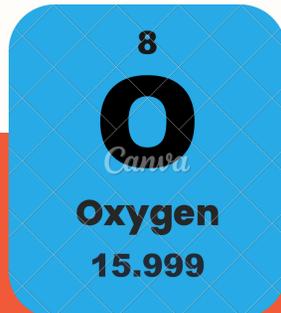
CURIOSITY

Landed on Mars in
August 2012



Found elements
like sulfur,
nitrogen , oxygen,
phosphorus and
carbon on Mars.

These elements are very
important for living organisms to
live. Since we found them on
Mars, we can guess that Mars
once had LIFE!



Curiosity took a

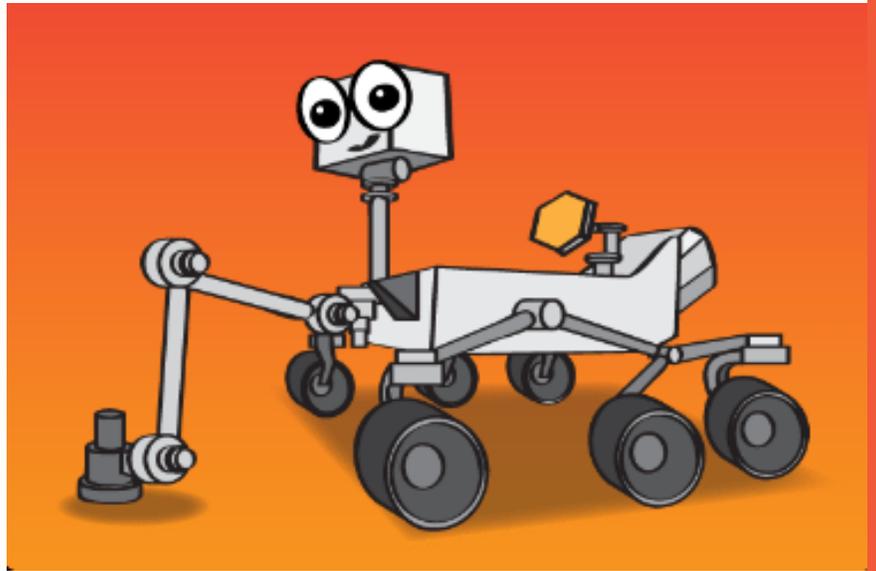
SELFIE



PERSEVERANCE

Landed on Mars
in February 2021

Currently looking
for signs of life on
Mars.



Perseverance and curiosity are very similar in structure but Perseverance is more advanced.

Curiosity examined the
samples by herself on
Mars.

Perseverance is storing
the samples, so that they
can be sent back to Earth.

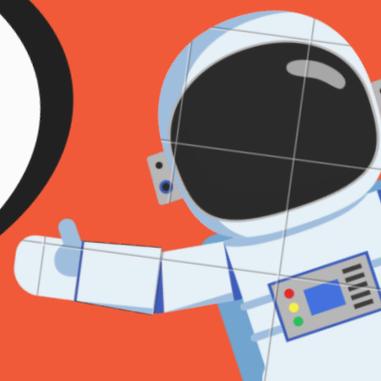


7 MINUTES OF TERROR

The landing of a rover on Mars is called 7 minutes of terror. Throughout the whole mission, this is one of the most important part. The rover has to land all on its own without any human help. Since Martian atmosphere is thinner than Earth's atmosphere, the rover could easily crash on the surface. When the rover enters Martian atmosphere, its speed is about **12,000 mph!** So, the rover has to slow down its speed using a parachute and its rockets.



The area that Perseverance landed on is called **Jezero Crater.**





Human Landing on Mars??

Right now, Perseverance is roaming Mars. After a few years, NASA will send two landers on Mars to retrieve the samples from Perseverance. These samples will return to Earth so that we can examine them.

Do you want to go to Mars? No problem. You can go as soon as we can find a way to produce oxygen on Mars. NASA has actually found a way to produce oxygen from carbon dioxide. The instrument used is called "**MOXIE**". Perseverance has this device with her and she is testing it out. If this works, it won't be long until humans roam the "streets" of Mars.

