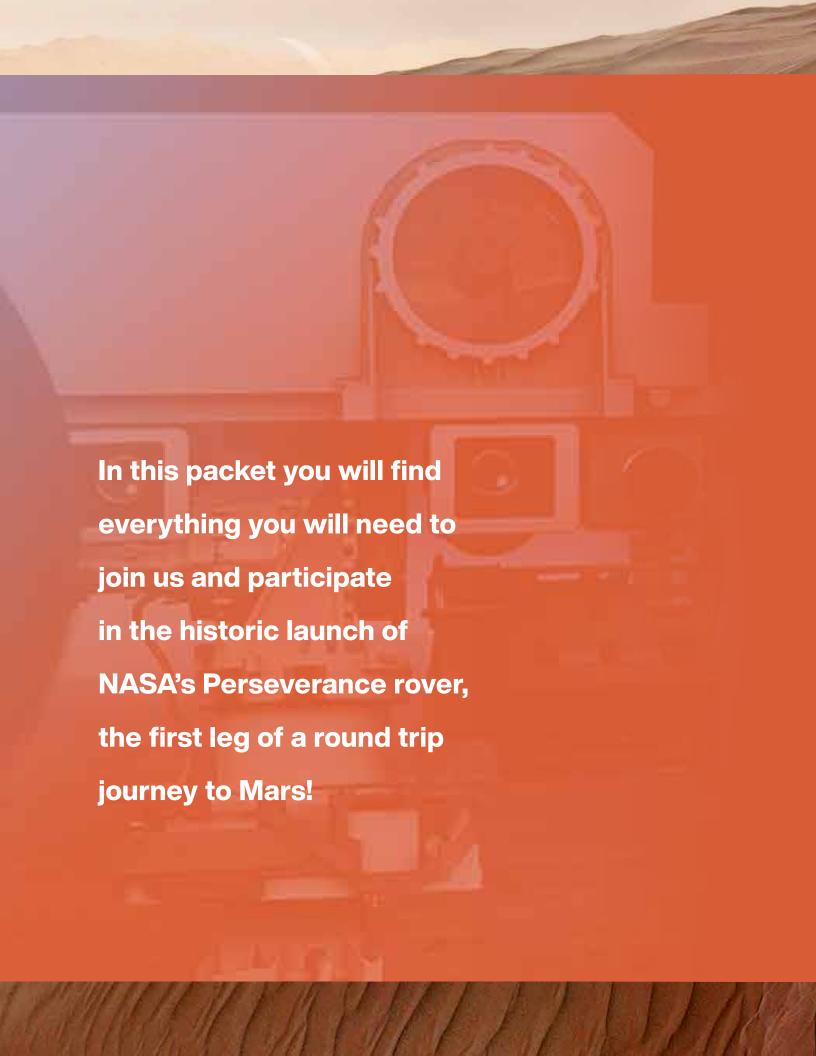
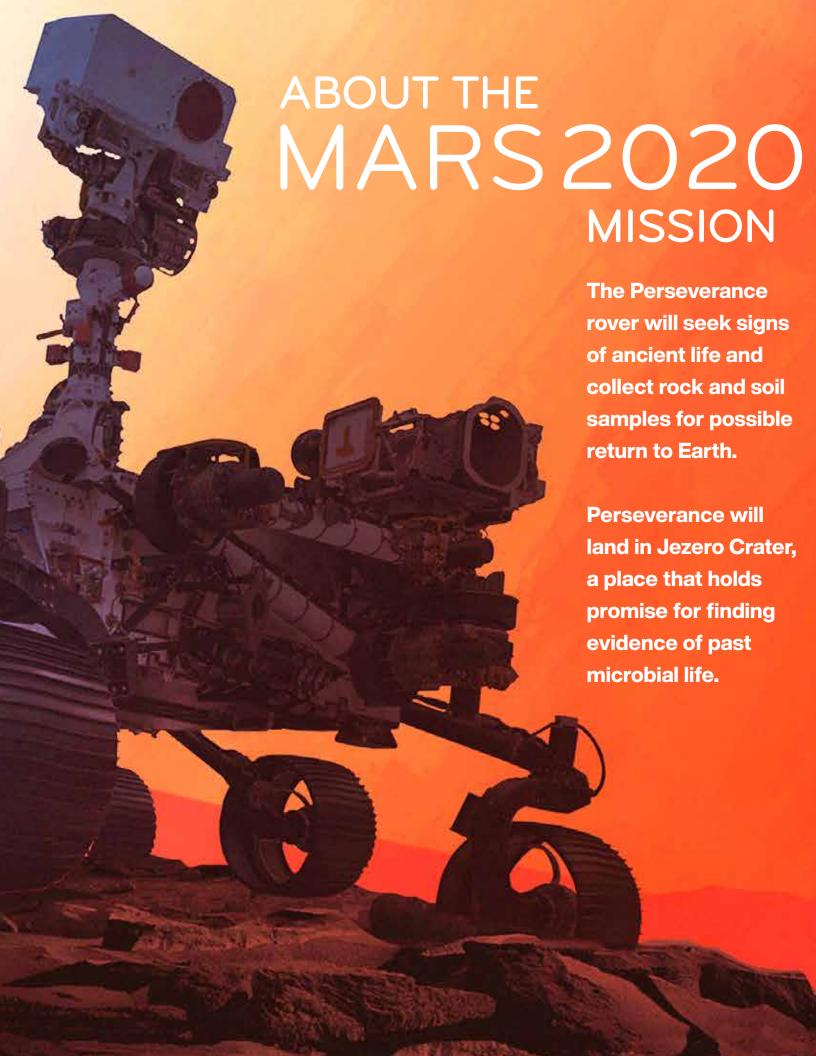


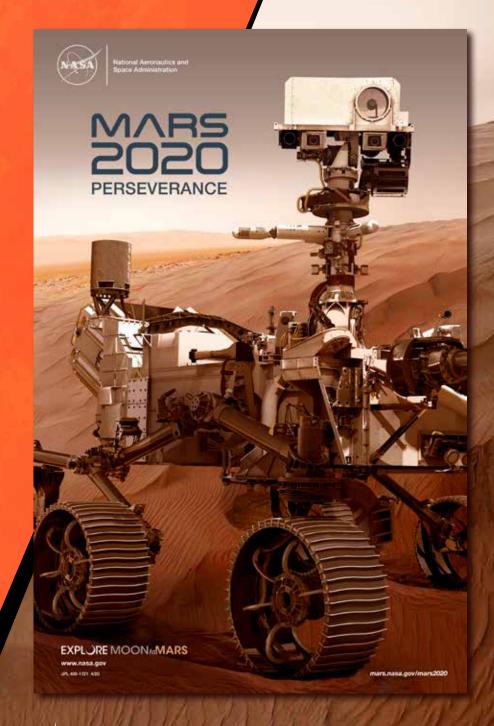


WELCOME TO YOUR VIRTUAL LAUNCH PACKET!





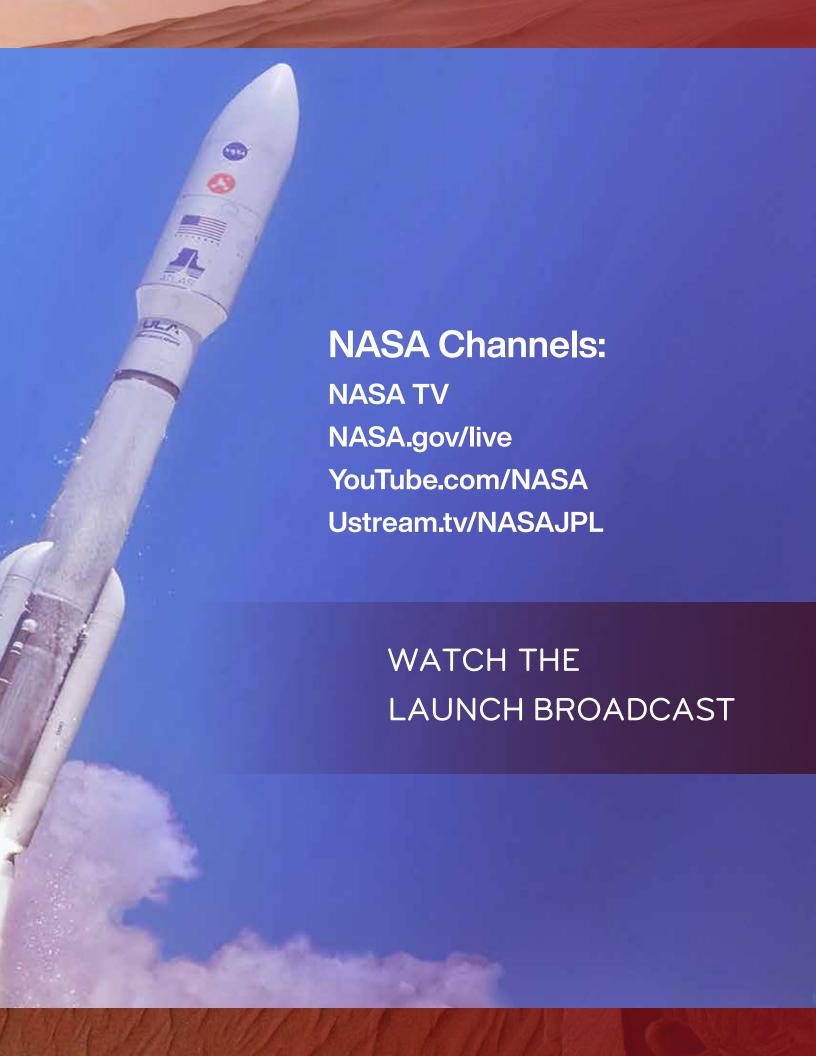
The rover will collect the most compelling rock samples and store them on the Martian surface for possible return to Earth by a future mission.



- → Download this poster for your home Mission Control.
- Learn how the rover collects samples here.

JOIN US ONLINE!

LAUNCHED JULY 30 4:50 a.m. PDT (7:50 a.m. EDT)



ROVER FACTS

ROVER NAME

Perseverance

MAIN JOB

The Perseverance rover will seek signs of ancient life and collect rock and soil samples for possible return to Earth.

NUMBER OF INSTRUMENTS

7, plus a mini arm inside the rover

CAMERAS

23, plus 2 microphones

SIZE

Car-size, or about: 10 feet long (not including arm)

9 feet wide 7 feet tall (about 3 meters long,

2.7 meters wide, and 2.2 meters tall).

WEIGHT

2,260 pounds (1,025 kilograms)





If you submitted your name to the "Send Your Name to Mars" campaign, your flight is now boarding!

As a "flyer" on this mission, you will get a special stamp on your boarding pass.



Get your boarding passes now and tune in to watch the launch online.

Didn't participate yet?
Your name can fly on our NEXT mission to Mars.



MISSION QUICK FACTS

LAUNCHED

July 30 at 4:50 a.m. PDT (7:50 a.m. EDT)

LAUNCH LOCATION

Cape Canaveral Air Force Station, Florida

LANDING

February 18, 2021

LANDING SITE

Jezero Crater, Mars

MISSION DURATION

At least one Mars year (about 687 Earth days)



5 THINGS TO KNOW ABOUT THE MARS HELICOPTER INGENUITY

- 1 The first test of powered flight on another planet.
- 2 Built to be light and strong enough to stow away under the rover while on the way to Mars, and survive the harsh Martian environment after arrival. The helicopter weighs less than 4 pounds (1.8 kilograms).
- 3 Powerful enough to lift off in the thin Mars atmosphere. The atmosphere of Mars is very thin: less than 1% the density of Earth's.
- The helicopter may fly for up to 90 seconds, to distances of almost 980 feet (300 meters) at a time and about 10 to 15 feet above the ground. That's no small feat compared to the first 12-second flight of the Wright Brothers' airplane.
- 5 The helicopter flies on its own, without human control. It must take off, fly and land, with minimal commands from Earth sent in advance.



NASAfacts

Mars Helicopter



When NASA's Mars 2020 rover lands on February 18, 2021, it will be carrying a passenger onboard: the first helicopte ever designed to fly in the thin Martian air.

in nature and completely independent of the into areas that are too steep or slippery to after landing, the helicopter will be placed on the surface to test - for the first time ever - powered flight in the thin Martian air. Its flights will help inform decisions relating to port role as robotic scouts, surveying terrain

The Mars Helicopter is a small, autonomous from above, or as full standalone science craft aircraft that will be carried to the surface on carrying instrument payloads. Taking to the air the Red Planet attached to the belly of the would give scientists a new perspective on a Mars 2020 rover. Its mission is experimental region's geology and even allow them to peer Mars 2020 science mission. In the months send a rover. In the distant future, they might even help astronauts explore Mars.

The project is solely a demonstration of techperformance during these experimental test nology; it is not designed to support the Mars 2020 mission, which is searching for signs of considering small helicopters for future Mars ancient life and collecting samples of rock and missions, where they could perform in a supby later missions.



Download this fact sheet



Watch video



