Mark's a rich destination for scientific discovery as we expand our presence into the solar system with human and robotic exploration. We're learning more about the formation and evolution of Mars, which can help us learn more about our own planet's history and future. In the past, the red planet had conditions suitable for life and future exploration. We may uncover evidence of life answering one of the oldest questions: does life exist beyond Earth? NASA is on a journey to Mars and the first humans will set foot on Mars. Are we alive on Earth today?
Rovers and spacecraft are on and around Mars studying its conditions revealing its history and showing us the red planet like never before on earth and in space we're doing the hard work to prepare for missions farther than ever before first to an asteroid and then onward to pioneer Mars during the past 40 years NASA explored Mars through robotic spacecraft Landers and Rovers dramatically increasing our knowledge about the red planet and paving the way for future human explorers future missions seeking signs of past life will
demonstrate new technology that could help astronauts survive on Mars. I think some of the most amazing things we're learning are how to be really good detectives on another planet which is a really difficult job. NASA's human mission to Mars begins in low-earth orbit aboard the International Space Station where astronauts are approving technologies and communications systems needed for human missions into deep space. The space station also teaches us how the human body changes in space so we can protect...
astronaut health on long-duration

missions deeper into the solar system

NASA will test other new technologies needed to send humans to Mars and the

first-ever mission to capture and

redirect an asteroid mass to a stable orbit around the moon astronauts aboard

NASA's Orion spacecraft will explore the asteroid in the 2020s and return to Earth with samples this experience will

help NASA test new systems and capabilities such as solar electric propulsion which is a highly efficient way to send heavy cargo ahead of human missions to Mars astronauts will travel
in an Orion launched atop a Space Launch System heavy lift rocket which will be the most powerful rocket ever flown.

apollo happened before I was born so this for our generation will be the exploration missions that we get to see in our lifetime.

the journey to Mars will improve lives on earth in an important ways will increase scientific knowledge that could help us better understand earth will also develop new technologies and economic opportunities right here in the United States and will advance us.
leadership in the peaceful international
exploration of space but make no mistake
the journey to Mars will be the challenge of a generation to send humans
to the red planet and return them safely
so we can go back keep exploring and push the frontiers of discovery
it's a journey well worth the risks
today our engineers and scientists are working hard to develop the technologies
astronauts will use to travel to and work on the Red Planet join us as we continue our journey to Mars
you