

A TRIBUTE TO SPACE EXPLORATION
AND OUR GENERATION'S NEXT GIANT LEAP
NEXT STOP...MARS

JOURNEY TO SPACE

NARRATED BY PATRICK STEWART

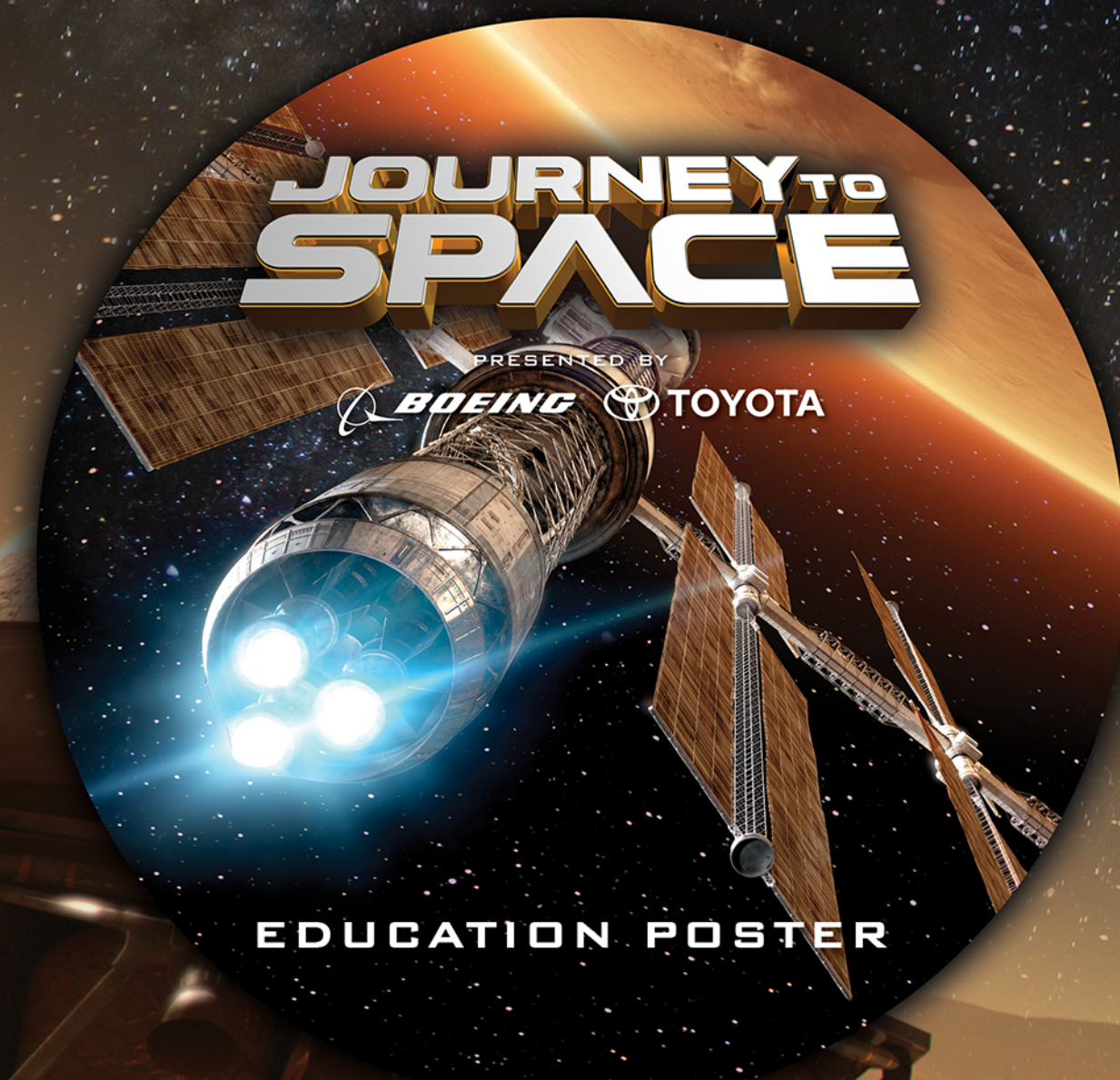
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SPACE CAREERS

NASA projects we may go to Mars in the 2030s, within the career-spans of today's young astronauts. *Journey to Space* includes many different jobs in the space program.

I first started thinking about space flight when I was four years old.
- Lindsay Aitchison,
Spacesuit Project Engineer



SPACESUIT PROJECT ENGINEER



AEROSPACE MEDICINE DOCTOR



AQUANAUT



ASTRONAUT



INFLATABLE HABITAT ENGINEER



THE EDUCATORS GUIDE TO JOURNEY TO SPACE

Journey to Space is a film that celebrates space exploration. It is a tribute to international cooperation in space research and a vision toward our near-term future beyond Earth's orbit – a manned mission to Mars within a generation. The Educators Guide includes 12 hands-on activities for grades 1-8, covering the themes: Take Off, The Space Shuttle in Space, The Space Shuttle on Earth, Life on Earth, Life in Space and Life on Mars.

I think to explore beyond what is known is simply at the core of our DNA.
- Astronaut Serena Auñón



NEXT STOP... MARS



THE SPACE SHUTTLE

The Space Shuttle was the first reusable, piloted spacecraft. Its engineering and software were so bulletproof that it could be flown by computers less powerful than today's smartphones. At 235 miles per hour, the Shuttle had the fastest touchdown speed of any flying vehicle ever built.

- Astronaut Chris Ferguson



THE INTERNATIONAL SPACE STATION (ISS)

The Space Shuttle program's truest legacy crosses the sky above us every 90 minutes. The International Space Station could never have been built without the Shuttle's payload and space-walk capabilities. The 15 nationals that designed, built and crew the ISS, forever changed space exploration into a cooperative international program and made a true home and science lab like no other.

- Astronaut Chris Ferguson



ORION

The Orion spacecraft is built to take humans farther than they've ever gone before. It will carry the crew to space, provide emergency abort capability, sustain the crew during the space travel, and provide safe re-entry from deep space return velocities.

The flight test of Orion is a huge step for NASA and a really critical part of our work to pioneer deep space on our journey to Mars.

- NASA Administrator Charles Bolden



THE SPACE LAUNCH SYSTEM (SLS)

SLS, the world's most powerful rocket, will launch astronauts in the agency's Orion spacecraft on missions to an asteroid and, within 20 years, to Mars.

When the giant Space Launch System, built by Boeing, is complete, the new rocket will stand as tall as a 38-story building and burn 12 tons of fuel per second to make over 9 million pounds of thrust, enough to lift 22 elephants into space.

- Astronaut Chris Ferguson