



Meet a professional (video interview)

- [Astronaut](#)
- [Pilot](#)
- [Flight Engineer](#)

Professional resources

- [What does a Flight Engineer do?](#)
- [Astronaut Adventures - Informal Education: Engage with Fred Haise in a live Q&A session.](#) (appropriate for grades 3+)

Response Sheet

- [Astronaut](#)
- [Pilot](#)
- [Flight Engineer](#)

Extension Activities

- [Who is on the International Space Station right now?](#)
 - Draw their mission patch. Explain what is special about the symbols on it.
 - Read about an astronaut and write three interesting things about them.
- [NASA Curriculum: Helicopters and Airplanes](#)
 - Activities that answer these questions: What is the difference between a helicopter and an airplane? What is the difference between a glider and an airplane? What is thrust?
- Astronaut Gloves
 - [Learning about Astronaut Gloves and Tools On-Board the International Space Station](#) (video).
 - Turn a classroom center into a space station. Students wear oversized gloves (garden or similar) to simulate astronauts working in space.
 - Pick up 10 math manipulatives and place a paper bag.
 - Loop a string through a washer and tie it.
 - Write their name and address.
 - Assemble a bolt, washer, and nut.
 - Construct an object following directions (like Lego™).



Literature List

Flight Engineers, Pilots, and Aerospace Engineering

- Rosie Revere, Engineer by Andrea Beaty
- Violet the Pilot by Steve Breen
- Izzy Gizmo by Pip Jones
- Papa Put a Man on the Moon by Kristy Dempsey
- How People Learned to Fly by Fran Hodgkins
- Engineering Is Everywhere by Emily Hunt & Michelle Pantoya
- Good Night Planes - Adam Gamble , Mark Jasper
- Piper the Pilot - Kathleen Foley and Alenka Trotovsek
- The Adventures of Pilotina - Jacqueline Camacho-Ruiz
- Flying Machines: How the Wright Brothers Soared -Alison Wilgus

STEM & Space Science Foundations

- Ada Twist, Scientist by Andrea Beaty
- A Computer Called Katherine: How Katherine Johnson Helped Put America on the Moon - Suzanne Slade
- The Darkest Dark - Chris Hadfield
- Curiosity: The Story of a Mars Rover - Markus Motum

Astronauts & Space Exploration

- Endurance, My Year in Space and How I Got There - Scott Kelly
- Mousetronaut by Mark Kelly
- Mae Among the Stars by Roda Ahmed
- Astronaut Annie by Suzanne Slade
- You Are the First Kid on Mars by Patrick O'Brien

Astronauts & Space Exploration (cont.)

- Look Inside Space by Rob Lloyd Jones (Usborne Lift-the-Flap)
- Roaring Rockets by Tony Mitton & Ant Parker
- If You Had Your Birthday Party on the Moon by Joyce Lapin
- How to Spacewalk: Step-by-Step with Shuttle Astronauts - Michael J. Rosen and Kathryn D. Sullivan
- Tell Me About Space - Lisa Varchol Perron, illustrated - Jennifer Falkner
- Countdown 2979 Days to the Moon - Suzanne Slade
- You Wouldn't Want to Be on Apollo 13! - Ian Graham
- To the Stars! The First American Woman to Walk in Space - Carmella Van Vleet & Dr. Kathy Sullivan
- Space: Planets, Moons, Stars, and More! - Joe Rhatigan
- Living in Space - Katie Daynes
- Hidden Figures: The True Story of Four Black Women and the Space Race - Margot Lee Shetterly
- Her Eyes on the Stars: Maria Mitchell, Astronomer - Laurie Wallmark
- Shining Star: Vera Rubin Discovers Dark Matter - Suzanne Slade
- The Woman in the Moon: How Margaret Hamilton Helped Fly the First Astronauts to the Moon - Richard Maurer