# **ELLEN** OCHOA

ASTRONAUT AND ENGINEER



## CHAPTER 1

#### Who Is Ellen Ochoa?

Since ancient times, people have looked up and wondered. In the 1960s, some called it "the new frontier." It inspires people's imaginations. Many movies and TV shows have been made about it. This is space.

In this vast area beyond Earth, anything seems possible. But not many have explored it. Fewer than 600 people have gone into space. Only 65 were women. One of them was Ellen Ochoa.

Dr. Ochoa is a history maker. Some call her a trailblazer. She was the first Latina to go to space. Later, she became the first Latinx director of the Johnson Space Center. This is in Houston, Texas.

Ochoa's list of achievements is long. But there is more to her legacy. The future inspires her. She wants to help others reach their dreams too. One way she does this is as an advocate for STEM. This stands for science, technology, engineering, and math.

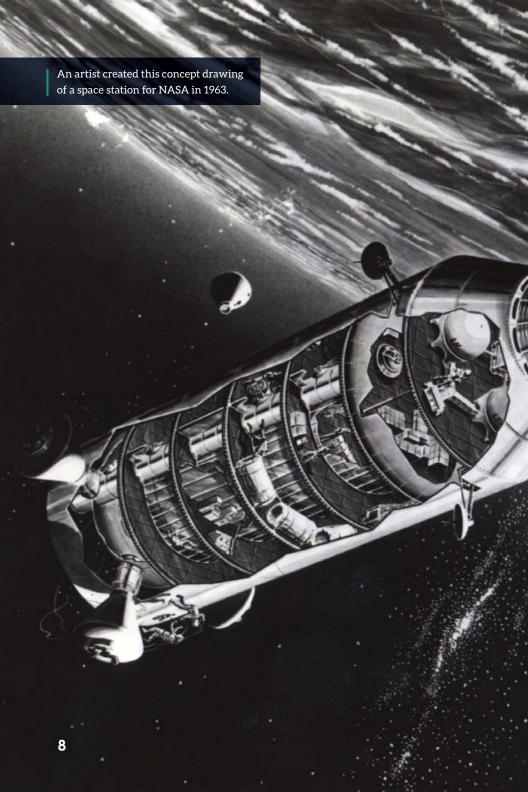
People in STEM jobs **innovate**. They work to solve big problems. Many issues affect Earth's future. That's why STEM skills are so important. These will be crucial in the coming years.

But in the U.S., men hold most STEM jobs. Women hold less than 30 percent. Not many people of color are in these jobs either. Ochoa is working to change that. She wants the brightest minds to go into STEM fields. This includes people from all backgrounds.

Growing up, Ochoa had many role models. They encouraged her to dream big. When she faced setbacks, they told her not to give up. In the end, she lit a new path for women in space. Now Ochoa inspires others to shoot for the stars too.







## CHAPTER 2

### The World of NASA

For thousands of years, people could only look to the stars. They charted them. Some searched for meaning in their positions. But they couldn't explore space. There was no way to get there.

All of that changed in the 1950s. This marked the dawn of the space age.

In 1958, the U.S. government created a new agency. This was the National Aeronautics and Space Administration (NASA). Soon it had a big goal. NASA aimed to send a man to the moon. The plan was to do it before 1970.

Getting to the moon wouldn't be easy. The U.S. had launched a **satellite** successfully. But no Americans had gone to space yet. To reach the goal, NASA made plans. There would be a series of **missions**. This was called the Apollo Program.

Each mission brought new lessons. First, rockets were tested. Nobody was on them. Then there were tests with **crews**. They went to space and then came back.

One crew had an accident. A fire broke out. Three men died. This led to changes. These made future missions safer.

In 1969, NASA finally reached its goal. A U.S. astronaut became the first person to walk on the moon. This was Neil Armstrong. His words as he stepped on the moon's surface have become famous. "That's one small step for man, one giant leap for mankind," he said.



