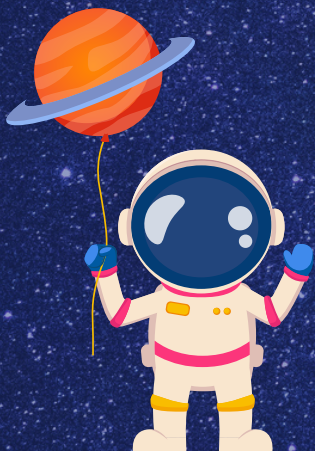


# POSTER COMPETITION

# WOMEN IN SPACE



STUDENT BOOK

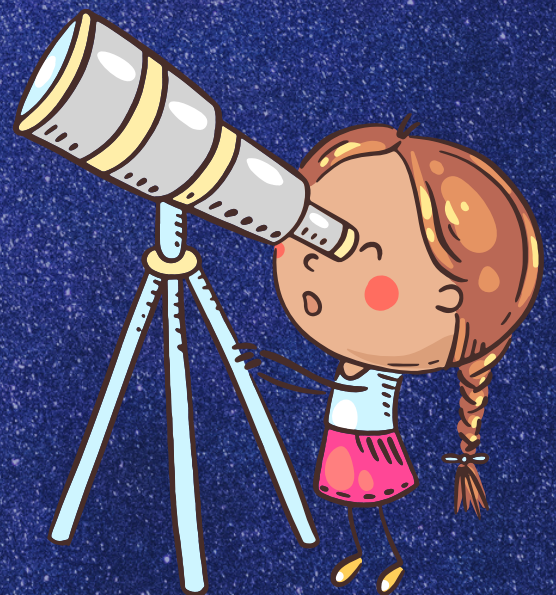




*Thank you for joining the competition!*

# WHY IS LEARNING ABOUT WOMEN IN SPACE IMPORTANT?

There are many amazing women who have helped with space exploration and science. Sometimes, their work wasn't noticed as much as it should have been. By learning about these women, we can show that anyone can be a scientist or go to space, no matter who they are. It helps fight unfair stereotypes and shows kids that they can dream big!





# NEED SOME INSPIRATION?

Below is a list of some amazing women who worked in space or science (STEM). You can use their stories to help make your posters and learn more.





## WOMEN IN SPACE: POSTER COMPETITION

Thank you for joining the competition! Below is a list of some amazing women who worked in space or science (STEM). You can use their stories to help make your posters and learn more.

**Caroline Lucretia Herschel (1750-1848)**

A German scientist who found 8 comets and made a list of 2,500 fuzzy spots in the sky called nebulae. This helped other scientists learn about space. She was the first woman to share her findings with a big science group and got a Gold Medal for her work.

**Mary Somerville (1780-1872)**

A Scottish scientist who taught herself about space and maths. She wrote books that helped explain science to people. She was one of the first women to be called a “scientist.”

**Henrietta Swan Leavitt (1868-1921)**

She discovered a way to measure how far away stars are. Her discovery helped other scientists figure out that some of the fuzzy clouds in the sky were actually faraway galaxies.

**Cecilia Payne-Gaposchkin (1900-1979)**

She found out that stars are mostly made of hydrogen and helium. At first, no one believed her, but later on, scientists proved that she was right.

**Mary Jackson (1921-2005)**

She was the first African American woman engineer at NASA. She helped other women and people of colour get jobs in science. Her story was featured in the movie Hidden Figures.

**Vera Rubin (1928-2016)**

She discovered that galaxies have something called “dark matter,” which we can't see but is really important. This helped scientists understand how galaxies work.

**Andrea M. Ghez (1965- )**

She studies black holes and won a Nobel Prize for her work. She was the fourth woman ever to win this big award in physics.

**Sara Seager (1971- )**

She looks for planets outside our solar system and tries to find ones that might have life. She helps design space missions to explore these planets.

**Ellen Ochoa (1958- )**

She was the first Hispanic woman to go to space. She also became the Director of NASA's Johnson Space Center and works to inspire kids to learn science.



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<b>Norah Patten (1988- )</b>	She is an aeronautical engineer from Ireland and hopes to become the first Irish person in space. She will help test new technology in space.
<b>Nicole Marie Passonno Stott (1962- )</b>	She was a NASA astronaut who worked on the International Space Station and went on space missions. She now shares her love for space with others.
<b>Claudia Haigneré (1957- )</b>	She is the first woman from France to go to space. She is also a doctor and a politician.
<b>Elżbieta Koopman Heweliusz (1647- 1693)</b>	She was a Polish astronomer who worked with her husband to study the stars. After he passed away, she finished and published his work.
<b>Marie Curie (1867- 1934)</b>	She studied radioactive materials and won two Nobel Prizes—one in physics and one in chemistry. She was the first woman to win a Nobel Prize.
<b>Lina Borozdina (1938- )</b>	She is a Ukrainian scientist and the first female astronaut from Ukraine. She flew into space with Virgin Galactic in 2024.
<b>Annie Easley (1933-2011)</b>	She was a computer scientist and helped NASA with important projects like Mars landers. She also inspired young people to study science.
<b>Mae Jemison (1956- )</b>	She was the first African American woman to go to space in 1992. She is a doctor, engineer, and works to get more kids interested in science.
<b>Samantha Cristoforetti (1977- )</b>	She is an Italian astronaut who went to the International Space Station and did experiments there. She also teaches kids about space.



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<b>Wang Zhenyi (1768-1797)</b>	She was a Chinese scientist and poet. She wrote books about space and math and has a crater on Venus named after her.
<b>Liu Yang (1978- )</b>	She was the first woman from China to go to space in 2012. She did scientific experiments in space.
<b>Wang Yaping (1980- )</b>	She was the first Chinese woman to do a spacewalk. She taught a lesson from space to kids on Earth.
<b>Kalpana Chawla (1962-2003)</b>	She was the first woman from India to go to space. Sadly, she died when her Space Shuttle broke apart. She is remembered as a hero.
<b>Ritu Karidhal (1975- )</b>	She is called the “Rocket Woman of India” because she helped lead important space missions like Chandrayaan-3.
<b>Mimi Aung (1968- )</b>	She helped design the first helicopter to fly on Mars. She now works on projects to bring internet to more people on Earth.
<b>María José Cordero (1994- )</b>	She is a Spanish scientist who works on missions exploring Mars and Jupiter.
<b>Valentina Tereshkova (1937- )</b>	She was the first woman to go to space in 1963. She flew in a Soviet spacecraft for three days.
<b>Katya Echazarreta (1995- )</b>	She was the first Mexican-born woman to go to space. She worked on NASA projects and encourages kids to learn science.



# WOMEN IN SPACE: POSTER COMPETITION

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**Svetlana Savitskaya  
(1948- )**

She was the first woman to do a spacewalk and flew into space twice for the Soviet Union.

**Sian Proctor (1970- )**

She is an astronaut and artist who went to space with SpaceX. She is the first African American woman to paint in space.

**Diana Trujillo  
(1980- )**

She is a Colombian-American engineer who worked on NASA's Mars missions, helping to design the Perseverance rover's robotic arm.

**Tanya Harrison  
(1985- )**

She is a scientist who studies Mars and worked on many NASA missions. She shares her love of space on TV and in documentaries.

**Katherine Johnson  
(1918-2020)**

She was a mathematician who helped NASA with important space missions. She was one of the first African American women to work there.

**Anamaria Font  
(1964- )**

She is a scientist from Venezuela who helped us understand black holes and the early universe.

**Sian Proctor (1970- )**

She is an astronaut and artist who went to space with SpaceX. She is the first African American woman to paint in space.

**Gwynne Shotwell  
(1963- )**

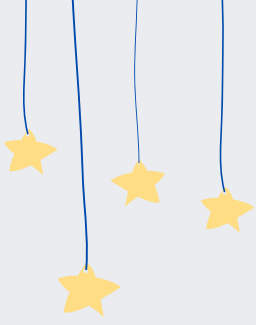
She is the Chief Operating Officer at SpaceX and helps make space travel possible. She is a leader in space technology and encourages girls to work in science.



# YOUR TURN NOW!

Use the following pages to help you organise the work for your project!





# My List of female space professionals

Name	Description of their work

# My Checklist

## Task to do...

## Self-evaluation

Task to do...	Self-evaluation				
	Couldn't finish	Almost finish	Finished	Good	Excellent
1. List the women I want to research	★	★	★	★	★
2. Get general information then pick my favorite	★	★	★	★	★
3. List resources for deep research: books, Wikipedia, YouTube, news...	★	★	★	★	★
4. Get detailed information about what she studied/achieved/built/created/discovered...	★	★	★	★	★
5. Find out why her discoveries/achievements are important and related to STEM	★	★	★	★	★
6. Categorize other interesting details	★	★	★	★	★
7. Write down why she is my favorite	★	★	★	★	★
8. Design a draft of the poster	★	★	★	★	★
9. Prepare materials for the poster	★	★	★	★	★
10. Make the poster	★	★	★	★	★
11. Ask advice and revise the poster	★	★	★	★	★

Notes

# My Checklist

## Task to do...

## Self-evaluation

Couldn't finish    Almost finish    Finished    Good    Excellent


Notes

