

# Nasa Mathematician Katherine Johnson Stem Trailbl

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## DENISSE PERKINS

*History at NASA* Page Street Publishing

This fascinating book introduces readers to the life and work of Ellen Ochoa, an astronaut who became the first Hispanic director of the Johnson Space Center. Historic images, "Did You Know?" sidebars, and a "Topic Spotlight" special feature provide added interest and context.

**Determination of Azimuth Angle at Burnout for Placing a Satellite Over a Selected Earth Position** Lerner Publications TM

Learn how Katherine Johnson broke barriers as a female African American mathematician.

**Science Educator and Advocate Bill Nye** Checkerboard Library

Women in Science and Technology: Katherine Johnson gives readers in grades 1-3 a brief biography of NASA mathematician Katherine Johnson. It covers her childhood, work for the space program, and passion for STEM education.

*The Extraordinary Life of Katherine Johnson* Gareth Stevens Publishing LLLP

In 1969 history was made when the first humans stepped on the moon. Back on earth, one woman was running the numbers that ensured they got there and back in one piece. As a child, Katherine Johnson loved maths. She went on to be one of the most important people in the history of space travel. Discover her incredible life story in this beautifully illustrated book complete with narrative biography, timelines and facts.

**Reaching for the Moon** Gutsy Girls

"First published in Great Britain in 2018 by Wayland"--Copyright page.

[Eight Years to the Moon](#) Encyclopaedia Britannica

The remarkable woman at heart of the smash New York Times bestseller and Oscar-winning film *Hidden Figures* tells the full story of her life, including what it took to work at NASA, help land the first man on the moon, and live through a century of turmoil and change. In 2015, at the age of 97, Katherine Johnson became a global celebrity. President Barack Obama awarded her the prestigious Presidential Medal of Freedom—the nation's highest civilian honor—for her pioneering work as a mathematician on NASA's first flights into space. Her contributions to America's space program were celebrated in a blockbuster and Academy-award nominated movie. In this memoir, Katherine shares her personal journey from child prodigy in the Allegheny Mountains of West Virginia to NASA human computer. In her life after retirement, she served as a beacon of light for her family and community alike. Her story is centered around the basic tenets of her life—no one is better than you, education is paramount, and asking questions can break barriers. The memoir captures the many facets of this unique woman: the curious "daddy's girl," pioneering professional, and sage elder. This multidimensional

portrait is also the record of a century of racial history that reveals the influential role educators at segregated schools and Historically Black Colleges and Universities played in nurturing the dreams of trailblazers like Katherine. The author pays homage to her mentor—the African American professor who inspired her to become a research mathematician despite having his own dream crushed by racism. Infused with the uplifting wisdom of a woman who handled great fame with genuine humility and great tragedy with enduring hope, *My Remarkable Journey* ultimately brings into focus a determined woman who navigated tough racial terrain with soft-spoken grace—and the unrelenting grit required to make history and inspire future generations.

[Katherine Johnson](#) Gareth Stevens Publishing LLLP

Before modern day desktops and laptops, there were human "computers" or mathematicians who handled complex calculations. Katherine Johnson, Mary Jackson, and Dorothy Vaughan were among the greatest computers, but their vital work at NASA has been largely left out of history. This immersive book explores the lives and accomplishments of ingenious women mathematicians and coders throughout history, such as Johnson, Jackson, and Vaughan. Mini bio and feature boxes provide fast facts; while quotes from featured mathematicians, coders, and their contemporaries inspire readers to develop their own love for STEM. Original illustrations and stunning photographs bring the lives of these incredible women into exciting focus. A thorough timeline highlights the progress of women in STEM and lists Nobel Prize winners. A gallery spread introduces readers to even more women mathematicians and coders, while a "Science Now" spread shows readers the modern world of math and coding.

**Hidden Women** Cherry Lake

Discusses what astronaut is, highlighting female astronauts who revolutionized the role of women in the field and providing activities, including building a robotic arm, designing a Mars rover, and making a telescope.

[Black Achievements in STEM](#) Stem-Gineers

Katherine Johnson: teacher, mathematician, trailblazer. Award-winning children's author, Leila Rasheed, explores the life of the inspirational NASA mathematician made famous by the film *Hidden Figures* - Katherine Johnson. A Life Story: This gripping series throws the reader directly into the lives of modern society's most influential figures. With striking black-and-white illustration along with timelines and never-heard-before facts. Also in the series: Stephen Hawking: A Life Story Rosalind Franklin: A Life Story Alan Turing: A Life Story *STEM in Figure Skating* Women in Science and Technolog As a child, Katherine loved to count. She counted the steps on the road, the number of dishes and spoons she washed in the kitchen sink - everything she could. Boundless, curious, and excited by calculations, young Katherine longed to know as much as she could about maths, about the universe... From Katherine's early beginnings as a gifted student to her heroic accomplishments as

a prominent mathematician at NASA, this is the true story of a groundbreaking African-American woman who went above and beyond what was expected of her in the 1960s.

*Ellen Ochoa* Penguin UK

Katherine Johnson grew up with a love of learning. She overcame racism to study math. Then she got a job with the space program. She figured out flight paths and did other math that allowed people to orbit Earth and reach the moon. Read this book to learn more about her life and her superstar career in STEM.

**Changing the Equation** Norwood House Press

"This rich volume is a national treasure." —Kirkus Reviews

(starred review) "Captivating, informative, and inspiring...Easy to follow and hard to put down." —School Library Journal (starred review)

The inspiring autobiography of NASA mathematician Katherine Johnson, who helped launch Apollo 11. As a young girl, Katherine Johnson showed an exceptional aptitude for math. In school she quickly skipped ahead several grades and was soon studying complex equations with the support of a professor who saw great promise in her. But ability and opportunity did not always go hand in hand. As an African American and a girl growing up in an era of brutal racism and sexism, Katherine faced daily challenges. Still, she lived her life with her father's words in mind: "You are no better than anyone else, and nobody else is better than you." In the early 1950s, Katherine was thrilled to join the organization that would become NASA. She worked on many of NASA's biggest projects including the Apollo 11 mission that landed the first men on the moon. Katherine Johnson's story was made famous in the bestselling book and Oscar-nominated film *Hidden Figures*. Now in *Reaching for the Moon* she tells her own story for the first time, in a lively autobiography that will inspire young readers everywhere.

*Building a Home in Space* Focus Readers

This title examines the STEM concepts that make figure skating so engaging. From the physics of angular momentum to the engineering of blades, chapters bring STEM concepts to life. The title also features sidebars on STEM in action, a glossary, and further resources.

*Mae Jemison* Bearcub BIOS

Biography of science educator, television host, mechanical engineer, and comedian Bill Nye.

*Space Missions of the 21st Century* Cutting-Edge Careers in Stem Meet Wernher von Braun, who developed the booster rocket that won the Space Race for the United States! Follow von Braun's story from his early work developing the V-2 ballistic missile to his development of the Saturn V booster rocket that took Apollo 11 to the moon. Infographics, historic photos, and a glossary enhance readers' understanding of this topic. Additional features include a table of contents, an index, a timeline and fun facts. Aligned to Common Core Standards and correlated to state standards. Checkerboard Library is an imprint of Abdo Publishing, a division of ABDO.

*Katherine Johnson* Simon and Schuster

A Behind-the-Scenes Look At NASA's incredible Journey to the Moon Space journalist and insider Nancy Atkinson weaves together the riveting story of NASA's mission to complete "the greatest adventure on which humankind ever embarked." This incredible account is a keepsake celebrating some of the most important and dramatic events in modern history. Told through over 60 personal interviews and oral histories, as well as personal photographs, this tribute to the men and women who made the Apollo 11 mission a reality chronicles the highs and lows that

accompanied the race to the Moon: the devastating flash fire that killed the crew of Apollo 1; the awe of those who saw their years-in-the-making contributions to space exploration blast off from Cape Canaveral; the knuckle-biting descent of Apollo 11 to the lunar surface; a near-catastrophic event on the crew's flight home; the infectious excitement and jubilation across the world after the astronauts returned safely to Earth. These little-known stories of the dedicated engineers, mathematicians and scientists in the 1960s reveal the "hows" of the Apollo missions and bring to life the wonder and excitement of humanity's first steps on the Moon.

*Women Scientists in Math and Coding* Scholastic UK

Compelling narrative nonfiction text presents the major space missions of the 21st century, featuring the intrigue and excitement behind the missions. Additional features to aid comprehension include a table of contents, fact-filled captions and callouts, infographics, a glossary, a listing of source notes, sources for further research, and an introduction to the author.

*Katherine Johnson* Momentum

"A detail-rich picture book." —Kirkus Reviews "Straightforward and inviting." —School Library Journal

From award-winning author Lesa Cline-Ransome and acclaimed illustrator Raúl Colón comes the sensitive, informative, and inspiring picture book biography of the remarkable mathematician Katherine Johnson, one of the NASA "human computers" whose work was critical to the first US space launch. Before John Glenn orbited the Earth or astronauts walked on the moon, a group of dedicated female mathematicians known as "human computers" used their knowledge, pencils, adding machines, and writing paper to calculate the orbital mechanics needed to launch spacecraft. Katherine Johnson was one of these mathematicians who used trajectories and complex equations to chart the space program. Even as Virginia's Jim Crow laws were in place in the early 1950s, Katherine worked analyzing data at the NACA (later NASA) Langley laboratory. In 1962, as NASA prepared for the orbital mission of John Glenn, Katherine Johnson was called upon and John Glenn said "get the girl" (Katherine Johnson) to run the numbers by hand to chart the complexity of the orbital flight. He knew that his flight couldn't work without her unique skills. President Barack Obama awarded Katherine Johnson the Presidential Medal of Freedom in 2015 and her incredible life inspired the Oscar-nominated film *Hidden Figures*. Get to know this incredible and inspirational woman with this beautifully illustrated picture book from an award-winning duo.

**Hidden Figures (Book Only)** Capstone

Katherine Johnson: teacher, mathematician, trailblazer. Award-winning children's author, Leila Rasheed, explores the life of the inspirational NASA mathematician made famous by the film *Hidden Figures*—Katherine Johnson. A Life Story: This gripping series throws the reader directly into the lives of modern society's most influential figures. With striking black-and-white illustration along with timelines and never-heard-before facts.

Also in the series: Stephen Hawking: A Life Story Rosalind

Franklin: A Life Story Alan Turing: A Life Story

*Wernher von Braun: Revolutionary Rocket Engineer* North Star Editions, Inc.

This title explores some of the amazing careers available in the field of mathematics and they're not just limited to the classroom! From helping athletes gain a competitive edge to helping eradicate hunger around the world, readers may be surprised to learn what exciting careers math can lead to.