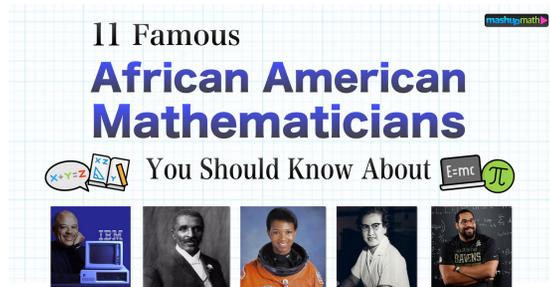




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11 Famous African American Mathematicians You Should Know About

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February is **Black History Month**, a time to celebrate and honor the generations of African

American men and women and their struggle to achieve citizenship and equal rights in American society.

Black History Month provides a special opportunity for students to explore and learn more about famous African American mathematicians and their contributions to our culture and modern institutions.

When it comes to STEM classes, one of the best ways you can celebrate Black History Month in your classroom is by sharing the contributions of **famous African American Mathematicians** that you and your kids may not be familiar with (but definitely should!).

Some ideas for celebrating these famous African American Mathematicians is by focusing on a different individual each day, assigning individuals for a famous African American Mathematician research assignment, or by sharing this article on your classroom's bulletin board.

And while you can share this list with your students and admire the accomplishments of these incredible mathematicians any time of the year, the month of February provides a focused opportunity to provide your students with deeper historical context and make connections between the past, the present, and the future.

11 Famous African American Mathematicians

1.) Benjamin Banneker (1731-1806)

Banneker, a mostly self-educated man in mathematics and astrology, is best known for building America's first clock—a wooden device that struck hourly. Using his rich understanding of trigonometry and astronomy, he accurately predicted a solar eclipse in 1789.



Stock Montage / Contributor / Archive Photos / Getty Images

Banneker was also a passionate civil rights advocate. In 1791, he famously penned a letter to then secretary of state Thomas Jefferson asking for his help in improving conditions for Africans living in the United States, which highly impressed Jefferson and convinced many that blacks were intellectually equal to whites.

He died at age 74 on October 9, 1806.

2.) Fern Hunt (1948-Present)

Fern Hunt is best known for her work in applied mathematics and mathematical biology. Throughout her great career, she has been involved with biomathematics, patterns in genetic variation, and chaos theory.

She currently works as an educator and presenter with the aim of encouraging women and minority

students to pursue graduate degrees in mathematics and other STEM fields.

Hunt is a strong support of student choice, following one's passion, and surrounding yourself with a strong support system, which are all factors that she credits to her own personal success in mathematics.

Mathematician: The Beauty of Mathematics - Fern Hunt



3.) Mark Dean (1957-Present)

Dean is a famous computer scientist and engineer, credited with assisting in the development of several breakthrough computer technologies for IBM.



Source: <https://isc.org>

He invented the first gigahertz computer chip and co-invented the *Industry Standard Architecture System* for computing, which allows for common plug-ins such as personal printers and modems.

Dean was inducted into the National Inventor's Hall of Fame in 1997

4.) Elbert Frank Cox (1895-1969)

In 1925, Elbert Frank Cox was the first black man to earn a Ph.D in mathematics not only in the United States, but in the entire world.



Source: web.usi.edu

After receiving this honor, Cox became a professor of mathematics at Howard University in Washington D.C. and eventually became chairman of the Mathematics Department in 1957. He would hold this role with great esteem until his retirement in 1965.

In 1975, the Howard University Mathematics Department established the Elbert F. Cox Scholarship Fund for undergraduate math majors to encourage young black students to pursue degrees in mathematics.

5.) Katherine Johnson (1918-Present)

Katherine Johnson was the main character of the critically-acclaimed film *Hidden Figures*. Her contributions in the field of orbital mechanics,

alongside fellow female African American mathematicians Dorothy Vaughan and Mary Jackson, were critical to the United States' success in putting astronaut John Glenn into orbit in 1962.

During her 35-year career at NASA, she held a reputation for being a master of complex manual calculations and helped pioneer the use of computer programming for performing complex calculations.

She was awarded the Presidential Medal of Freedom by President Barack Obama in 2015.

Video: *Katherine Johnson: The Girl Who Loved to Count* by NASA



6.) Valerie Thomas (1943-Present)

Valerie Thomas is a scientist and inventor best known for inventing the Illusion Transmitter in 1980. This



Source: www.MT.edu

technology was the first of its kind in the field of 3D-imagery and is the basis for modern 3D-televisions, video games, and movies.

From 1964 -1995, Thomas worked for NASA, developing real-time computer data systems and managing the team that developed the *Landsat* technology that supported the first satellite to transmit images from outer space.

Today, she continues to serve as a mentor for youth through the *Science Mathematics Aerospace Research and Technology and National Technical Association*.

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7.) Lonnie Johnson (1949-Present)

Lonnie Johnson is a famous inventor, mathematician, and engineer who holds over 120 patents. He served as an engineer for the U.S. Air Force, where he worked on developing the stealth bomber, and later for NASA's Jet Propulsion program.



Source:
<http://www.panitchlaw.com>

He is best known for inventing the Super Soaker water gun while working at the U.S. Air Force, a product which has grossed nearly \$1 Billion since 1990. He also invented a "toy projectile gun," which eventually became the Nerf Gun.

8.) John Urschel (1991-Present)

John Urschel excelled in both mathematics and playing football at Penn State University and earned bachelor's and master's degrees in mathematics. In 2014, Urschel was drafted from Penn State into the NFL by the Baltimore Ravens, where he played his entire NFL career before retiring at age 26 to further pursue mathematics.

He is currently working towards his Ph.D. in mathematics from MIT where some of his mathematical fields of interest include graph theory, numerical linear algebra, and machine learning.



9.) Euphemia Lofton Haynes (1890–1980)

Euphemia Lofton Haynes is famous for being the first African-American woman to earn a Ph.D. in mathematics, which she achieved from the Catholic University of America in 1943.



Source: www.agnesscott.edu

After earning her Ph.D., she embarked on a 47-year career of advocacy for students of color, improving schools, and overcoming the harmful effects of racial segregation. During this time, she was also a math professor at the District of Columbia Teachers

College, where she managed the Division of Mathematics and Business Education department.

Haynes died at the age of 89 on July 25, 1980.

10.) Annie Easley (1933–2011)

Annie Easley is famous NASA computer and rocket scientist and mathematician who contributed to several space programs, inspired others through her participation in numerous outreach programs, and broke down barriers for both women and African Americans in STEM. Most notably, she was a leading member of the team that developed the breakthrough *Centaur* rocket, which opened the door for the launch of many of NASA's most important missions.



Source: www.commonswiki.org

Easley was known for being a “human computer” and always fought to do her best in the face of adversity. In a 2001 interview she shared that “I just have my own attitude. I’m out here to get the job done, and I knew I had the ability to do it, and that’s where my focus was.”



11.) Mae Carol Jemison (1956-Present)

Mae Carol Jemison is a mathematician, engineer, physician, and astronaut. In 1992, she became the first African American woman to visit space when she went into orbit aboard NASA's Space Shuttle *Endeavour*.



Source: www.nteu.org

Jemison also spent time as a general practice physician and in the Peace Corps before joining NASA's astronaut program.

She continues to be involved in several initiatives and recently served on the council for an initiative called "Science Matters" which aims to encourage young children to understand and pursue careers in STEM.

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How are you planning on celebrating Black History Month in YOUR classroom? Share your thoughts and suggestions in the comments section below!

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By Anthony Persico

Anthony is the content crafter and head educator for YouTube's [MashUp Math](#) and an advisor to Amazon Education's 'With Math I Can' Campaign.



You can often find me happily developing animated math lessons to share on my [YouTube channel](#). Or spending way too much time at the gym or playing on my phone.

11 FAMOUS African American Mathematicians YOUR KIDS SHOULD KNOW ABOUT!

$x+y=z$

$E=mc^2$