

african american scientist black history month

Celebrating African American Scientists: A Black History Month Exploration

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H1: Honoring Excellence: African American Scientists in Black History Month

Black History Month provides a crucial opportunity to celebrate the monumental contributions of African American scientists throughout history. Their ingenuity, perseverance, and dedication have pushed the boundaries of scientific knowledge and technology, often despite facing systemic racism and immense obstacles. This exploration delves into the remarkable achievements of African American scientists, examining their varied methodologies and approaches, and highlighting the importance of their legacies for future generations.

H2: Methodologies and Approaches: A Diverse Landscape of Scientific Contributions

The methodologies and approaches employed by African American scientists have mirrored the breadth and depth of scientific disciplines themselves. From pioneering experimental designs in medicine to developing innovative theoretical frameworks in physics, their contributions are incredibly diverse.

A. Experimental Research & Innovation: Many African American scientists have excelled in experimental research, focusing on areas where their unique perspectives and lived experiences offered critical insights. For example, Dr. Charles Drew's groundbreaking work on blood storage and blood banks revolutionized the field of transfusion medicine, saving countless lives. His innovative approach to blood preservation – using plasma instead of whole blood – significantly improved the efficiency and safety of blood transfusions. This methodology demonstrated both practical application and impactful results, significantly altering medical practices.

B. Theoretical Frameworks and Mathematical Modeling: Others have made invaluable contributions through theoretical frameworks and mathematical modeling. Dr. Katherine Johnson, whose calculations were crucial to NASA's early space missions, exemplifies this approach. Her mastery of complex mathematical calculations, along with the work of her colleagues Mary Jackson and Dorothy Vaughan, was essential to the success of the Mercury and Apollo programs. These scientists used meticulous mathematical modeling to predict trajectories and ensure the safety of astronauts. This exemplifies a precise and deeply analytical approach.

C. Advocacy and Social Justice: The legacy of African American scientists is not solely defined by their research, but also by their relentless advocacy for social justice within the scientific community. Dr. Mae Jemison, the first African American woman to travel to space, is a shining example. Her dedication to promoting STEM education, particularly among underrepresented groups, showcases a significant methodological contribution. This approach highlights the importance of equity, diversity, and inclusivity in advancing scientific knowledge.

D. Interdisciplinary Approaches: Increasingly, we see African American scientists successfully integrating interdisciplinary approaches to solve complex challenges. The integration of engineering, biology, and computer science, for instance, is critical in the development of novel biotechnologies and medical devices. This reflects a forward-thinking, collaborative methodology vital for addressing today's significant global challenges.

H2: Overcoming Barriers: Persistence in the Face of Adversity

The journey of African American scientists has been, and continues to be, marked by significant hurdles. Systemic racism, segregation, and a lack of access to resources have consistently posed immense challenges. Yet, through unwavering determination and exceptional talent, they have overcome these obstacles, leaving an enduring mark on science and inspiring future generations. The stories of these scientists during African American Scientist Black History Month serve as powerful reminders of the resilience and strength of the human spirit.

H2: Celebrating Achievements: A Legacy of Innovation During African American Scientist Black History Month

This Black History Month, it's crucial to acknowledge and celebrate the exceptional achievements of African American scientists who have revolutionized their fields. Their work continues to shape our understanding of the world, influencing technological advancements and medical breakthroughs. Their legacies serve as a testament to the power of perseverance and the importance of diverse voices in science. By recognizing their contributions, we honor their struggles and celebrate their successes, ensuring that their stories continue to inspire and empower others to pursue careers in

STEM.

H2: The Future of African American Scientists: Cultivating the Next Generation

Celebrating African American scientists during Black History Month is not simply about remembering the past; it is about building a more equitable future. By investing in STEM education and mentorship programs for underrepresented groups, we can cultivate the next generation of scientists and innovators. Supporting initiatives aimed at increasing diversity in STEM fields is essential for ensuring that everyone has the opportunity to contribute their unique talents and perspectives to the advancement of scientific knowledge. This requires a sustained commitment from individuals, institutions, and government agencies to create a truly inclusive and equitable environment for all.

Conclusion:

African American Scientist Black History Month provides an invaluable opportunity to celebrate the remarkable achievements and enduring legacies of African American scientists. Their contributions have transformed various scientific disciplines, demonstrating the power of perseverance, innovation, and a commitment to social justice. By understanding their methodologies, acknowledging the obstacles they overcame, and fostering a more inclusive scientific community, we can continue to build upon their remarkable contributions and inspire future generations of scientists.

FAQs:

1. What is the significance of celebrating African American scientists during Black History Month? It's crucial to acknowledge the historical and ongoing contributions of African Americans to science, often achieved despite systemic barriers. It fosters recognition, inspires future generations, and promotes diversity in STEM.
1. Who are some prominent African American scientists? Prominent figures include Dr. Charles Drew (blood storage), Katherine Johnson (NASA mathematician), Mae Jemison (astronaut and physician), and Dr. Percy Julian (chemist).
1. What challenges did African American scientists face historically? They faced systemic racism, segregation, limited access to education and resources, and discrimination within the scientific community.

1. How can we promote greater representation of African Americans in STEM fields? Invest in STEM education, mentorship programs, and initiatives that address systemic inequities and biases.
1. What are some resources for learning more about African American scientists? Numerous books, documentaries, websites (e.g., the National Museum of African American History and Culture), and educational organizations offer information.
1. Are there specific programs dedicated to supporting African American scientists? Yes, many universities, organizations (like the National Society of Black Physicists), and government agencies offer scholarships, fellowships, and mentorship opportunities.
1. How have African American scientists impacted medicine? Their contributions have been vast, from advancements in blood storage to groundbreaking research in various diseases and the development of life-saving medical devices.
1. What is the role of mentorship in supporting African American scientists? Mentorship provides crucial guidance, support, and networking opportunities, helping navigate challenges and achieve success in STEM fields.
1. How can individuals contribute to promoting diversity in STEM? Support organizations working towards diversity, advocate for equitable policies, and actively mentor and support underrepresented students and professionals.

Related Articles:

1. "The Legacy of Dr. Charles Drew: A Pioneer in Blood Transfusion": Explores the life and scientific contributions of Dr. Charles Drew and the impact of his innovative techniques on blood storage and transfusion medicine.
1. "Katherine Johnson: Calculating a Legacy in Space Exploration": Details the life and crucial

mathematical contributions of Katherine Johnson to NASA's space missions.

1. "Mae Jemison: Breaking Barriers in Space and Science": Profiles the life and achievements of Mae Jemison, the first African American woman in space, and her ongoing dedication to STEM education.
1. "Dr. Percy Julian: A Chemical Pioneer and Advocate for Social Justice": Highlights the groundbreaking chemical research of Dr. Percy Julian and his contributions to medicine and his commitment to social equality.
1. "Overcoming Barriers: The Stories of African American Women in STEM": Explores the unique challenges and triumphs faced by African American women scientists throughout history.
1. "The Importance of Mentorship in Advancing African American Scientists": Discusses the vital role of mentorship in fostering success and creating an inclusive STEM environment for African American students and researchers.
1. "STEM Education Initiatives: Cultivating the Next Generation of African American Scientists": Explores various programs and initiatives dedicated to promoting STEM education and increasing diversity within STEM fields.
1. "Celebrating Black Excellence in STEM: A Collection of Inspiring Stories": A compilation of profiles highlighting the achievements and impact of numerous African American scientists across various disciplines.
1. "The Role of Historically Black Colleges and Universities (HBCUs) in Advancing STEM Education": Focuses on the significant role HBCUs have played in educating and fostering the careers of African American scientists.

african american scientist black history month: *Black Men in Science* Bryan Patrick Avery, 2022-02-01 Incredible stories of Black men who changed the course of science—for kids ages 8 to 12 All throughout history, Black men have made important contributions to scientific discovery. This collection of biographies for kids explores 15 of these intelligent men and the extraordinary scientific accomplishments they achieved—even when they faced huge challenges. You'll learn how they stood up against racism and inequality, and never stopped following their passions for science, technology, engineering, and mathematics. Meet talented Black men in history who have helped: Explore our world—Discover inventors like Lewis Howard Latimer and biologists like George Washington Carver, and find out how they expanded our understanding of the world around us. Advance medicine—Learn the stories of doctors like James McCune Smith and Leonidas Berry who helped stop the spread of disease and change the way we perform surgery. Change the game—Find out how people like geneticist Rick Kittles and engineer Roy L. Clay Sr. are still doing important research and breaking barriers. Dive into a world of inspiring men with this scientific entry into Black history books for kids.

african american scientist black history month: *The Time Is Now* , 2020-01-20 TEAM-UP, the National Task Force to Elevate African American representation in Undergraduate Physics & Astronomy was chartered and funded by the American Institute of Physics (AIP) Board of Directors to examine the reasons for the persistent under-representation of African Americans in physics and astronomy in the US as measured by bachelor's degrees in these fields. This book is their detailed report which include recommendations.

african american scientist black history month: Scientists, Mathematicians and Inventors Doris Simonis, 2019-11-04 Scientists, Mathematicians, and Inventors provides biographies of 200 men and women who changed the world by leaving lasting legacies in the fields of science, mathematics, and scientific invention. It fills a gap in the biographical reference shelf by offering far more than basic facts about a scientist's life and work: each entry describes not only the immediate effects of the individual's discoveries, but also his or her impact on later scientific findings.

african american scientist black history month: *Scientists Who Changed History* DK, 2022-04-30 Explore the lives and achievements of more than 85 of the world's most inspirational and influential scientists with this innovative and boldly graphic biography-led book. The second title in DK's new illustrated biography series, *Scientists Who Changed History* profiles trailblazing individuals from Greek mathematicians, such as Archimedes and Hipparchus, through physicists of the early 20th-century, such as Marie Curie and Albert Einstein, to modern greats such as Stephen Hawking and Tim Berners-Lee. Each featured individual has made a major contribution to one or more scientific fields, from astronomy, biology, and psychology, to computer science and geology. Combining elements of biography, history, and analysis, *Scientists Who Changed History* explains the groundbreaking contributions made by these revolutionary men and women in a clear and informative way.

african american scientist black history month: Black Apollo of Science Kenneth R. Manning, 1985-01-03 This biography illuminates the racial attitudes of an elite group of American scientists and foundation officers. It is the story of a complex and unhappy man. It blends social, institutional, black, and political history with the history of science.

african american scientist black history month: *Blacks in Science* Ivan Van Sertima, 1983 Providing an overview of the lost sciences of Africa and of contributions that blacks have made to modern American science, *Blacks in Science* presents a range of new information from Africanists. The book also includes bibliographical guides that are crucial to further research and teaching. The lineaments of a lost science are now emerging and we can glimpse some of the once buried reefs of this remarkable civilization. A lot more remains to be revealed. But enough has been found in the past few years to make it quite clear that the finest heart of the African world receded into the shadow while its broken bones were put on spectacular display. The image of the African, therefore, has been built up so far upon his lowest common denominator. In the new vision of the ancestor, we

need to turn our eyes away from the periphery of the primitive to the more dynamic source of genius in the heartland of the African world. -- Ivan Van Sertima

african american scientist black history month: I am Jackie Robinson Brad Meltzer, 2015-01-08 We can all be heroes is the message entertainingly told in this New York Times Bestselling picture-book biography series, with this title focusing on groundbreaking baseball player, Jackie Robinson Jackie Robinson always loved sports, especially baseball. But he lived at a time before the Civil Rights Movement, when the rules weren't fair to African Americans. Even though Jackie was a great athlete, he wasn't allowed on the best teams just because of the color of his skin. Jackie knew that sports were best when everyone, of every color, played together. He became the first Black player in Major League Baseball, and his bravery changed American history and led the way to equality in all sports in America. This friendly, fun biography series inspired the PBS Kids TV show Xavier Riddle and the Secret Museum. One great role model at a time, these books encourage kids to dream big. Included in each book are: • A timeline of key events in the hero's history • Photos that bring the story more fully to life • Comic-book-style illustrations that are irresistibly adorable • Childhood moments that influenced the hero • Facts that make great conversation-starters • A virtue this person embodies: Jackie Robinson's bravery led him to make his mark in baseball history. You'll want to collect each book in this dynamic, informative series!

african american scientist black history month: Black Women in Science Kimberly Brown Pellum, 2022-05-24 Learn about amazing Black women in science--15 fascinating biographies for kids 9 to 12 Throughout history, Black women have blazed trails across the fields of science, technology, engineering, and mathematics. Black Women in Science brings something special to black history books for kids, celebrating incredible Black women in STEM who have used their brains, bravery, and ambition to beat the odds. Black Women in Science stands out amongst other Black history books for kids—featuring 15 powerful stories of fearless female scientists that advanced their STEM fields and fought to build a legacy. Through the triumphs of these amazing women, you'll find remarkable role models. Black Women in Science goes where Black history books for kids have never gone before, including: Above and beyond—Soar over adversity with Mae Jemison, Annie Easley, and Bessie Coleman. Part of the solution—Discover the power of mathematics with Katherine Johnson and Gladys West. The doctor is in—Explore a life of healing with Mamie Phipps Clark, Jane Cooke Wright, and many more. Find the inspiration to blaze your own trail in Black Women in Science—maybe your adventure will be the next chapter in Black history books for kids.

african american scientist black history month: Black Women in the Academy Lois Benjamin, 1997 Often inspiring, these accounts serve collectively both as a handbook for today's black female academics, administrators, graduate students, and junior faculty and as a call to the nation's academies to respond to the voice of black women. It is also a fascinating insiders' guide to what is going on in the halls of higher learning today.

african american scientist black history month: Black Inventors Keith Holmes, 2012-05 Black Inventors, Crafting Over 200 Years of Success, highlights the work of Black inventors from over seventy countries. The author, Keith C. Holmes, has spent more than twenty years researching Black inventors from countries that include Australia, Bahamas, Barbados, Canada, Cuba, Ethiopia, France, Germany, Ghana, Dominican Republic, Guadeloupe, Guyana, Haiti, Italy, Jamaica, Japan, Kenya, Mozambique, Nigeria, St. Vincent, South Africa, Tanzania, Trinidad and Tobago, the United Kingdom and the United States. Without inventions, innovations, financial resources, materials, muscle and labor saving devices, civilizations cannot exist and flourish. This book documents a number of inventions, patents and labor saving devices conceived by Black inventors. Among many other inventions, pre-enslaved Africans, developed agricultural tools, building materials, medicinal herbs, cloth and weapons. Although historical documents emphasize that millions of Black people arrived in Canada, the Caribbean, Central and South America and the United States under slavery's yoke, it is relatively unknown that thousands of Africans and their descendants developed numerous labor-saving devices and inventions that spawned companies which generated money and jobs,

worldwide. While most authors focus primarily on American and European inventors, Keith Holmes introduces inventions, both past and present, that Black people, developed and patented globally and multiculturally. *Black Inventors, Crafting Over 200 Years of Success*, also features early Black inventors from virtually every state in the US. It includes details about the first Black inventor who obtained a patent in both the Caribbean and the United States. To date, seventeen African American men have been inducted into the National Inventors Hall of Fame. Two inventors, Jan E. Matzeliger, (Suriname) and Elijah McCoy, (Colchester, Canada) were not born in this country. The material available in this book, one of the first to address the diversity of Black inventors and their inventions from a global perspective, effectively gives the reader, researcher, librarian, student, and teacher the materials they need to understand that the Black inventor is not only a national phenomenon, but also a global giant.

african american scientist black history month: Young Trailblazers: the Book of Black Inventors and Scientists M. J. Fievre, 2023-03-14 Learn About Amazing Black Trailblazers Who Changed the World A fun new book for children that teaches them about Black trailblazers who have impacted the world through their actions and inventions. From Black Inventors to Black Scientists. Take your child on an adventure and travel through time to meet historical Black trailblazers who changed the game. Countdown to liftoff with Katherine Johnson who helped pioneer U.S. crewed space missions. Safely cross the street with Garrett Morgan who invented the traffic signal or even sing your heart out with James West's invention of the microphone. Experience an array of rich Black history. There are Black scientists and Black inventors such as George Washington Carver and Madam C.J. Walker we all know. There are also dozens of Black trailblazers that we don't, all of whom have accomplished remarkable things in literature, entertainment, education, STEM, business, military and government services, politics and law, activism, sports, spirituality, and more. Cuddle up with your child and meet the Young Trailblazers who will: * Introduce your child to Black history * Encourage the importance of dreaming big * Show your child that they can do it too If your child enjoyed books about Black History such as *Black Heroes*, *100 African-Americans Who Shaped American History*, or *Black Women in Science*, they'll love *Young Trailblazers: The Book of Black Inventors and Scientists*.

african american scientist black history month: The Life of Benjamin Banneker Silvio Bedini, 2024-09-24 Immerse Yourself in the Life and Times of the Nation's First Black Scientist Benjamin Banneker, celebrated today as the nation's first Black scientist and man of letters, was a largely self-taught mathematician, surveyor, and astronomer who came of age during America's revolutionary period. Silvio Bedini's acclaimed and definitive biography, *The Life of Benjamin Banneker*, is his story. Banneker was born a free Black in 1731 and quickly exhibited an extraordinary facility for mathematics. Through his study of astronomy, he accurately predicted the solar eclipse that occurred in 1789, but his true acclaim is based on the almanacs he published between 1792 and 1797, which contained tidal information from Maryland to Canada, population figures for the burgeoning United States, astronomical data and weather predictions, and a wide variety of writings and occurrences of the time. He was instrumentally one of the nation's earliest record keepers. In 1791, Banneker also demonstrated his role as an advocate for civil rights when he sent a copy of one of his almanac manuscripts to Thomas Jefferson (the nation's first Secretary of State), in which he enclosed a letter that challenged the Secretary's views on slavery and advocated for its abolishment. Both the letter and Jefferson's reply were soon published, notably representing two prevalent forces of the era in contrasting the humanitarian perspective of Banneker with those of the politician Jefferson, thus delineating a point of contention that continues to resonate today. Using primary source material, author Silvio Bedini explores the facts, myths, and legends surrounding Benjamin Banneker. This republished revised and expanded edition, complete with over 75 photographs of documents and tools, skillfully captures the life of a gifted Black man living during eighteenth-century America. It is a vivid portrayal that readers will find engaging from its first page to its last.

african american scientist black history month: African American Political Thought Melvin

L. Rogers, Jack Turner, 2021-05-07 African American Political Thought offers an unprecedented philosophical history of thinkers from the African American community and African diaspora who have addressed the central issues of political life: democracy, race, violence, liberation, solidarity, and mass political action. Melvin L. Rogers and Jack Turner have brought together leading scholars to reflect on individual intellectuals from the past four centuries, developing their list with an expansive approach to political expression. The collected essays consider such figures as Martin Delany, Ida B. Wells, W. E. B. Du Bois, James Baldwin, Toni Morrison, and Audre Lorde, whose works are addressed by scholars such as Farah Jasmin Griffin, Robert Gooding-Williams, Michael Dawson, Nick Bromell, Neil Roberts, and Lawrie Balfour. While African American political thought is inextricable from the historical movement of American political thought, this volume stresses the individuality of Black thinkers, the transnational and diasporic consciousness, and how individual speakers and writers draw on various traditions simultaneously to broaden our conception of African American political ideas. This landmark volume gives us the opportunity to tap into the myriad and nuanced political theories central to Black life. In doing so, African American Political Thought: A Collected History transforms how we understand the past and future of political thinking in the West.

african american scientist black history month: African American Women Chemists Jeannette Brown, 2012-01-05 Beginning with Dr. Marie Maynard Daly, the first African American woman to receive a PhD in chemistry in the United States--in 1947, from Columbia University--this well researched and fascinating book celebrate the lives and history of African American women chemists. Written by Jeannette Brown, an African American chemist herself, the book profiles the lives of numerous women, ranging from the earliest pioneers up until the late 1960's when the Civil Rights Acts sparked greater career opportunities. Brown examines each woman's motivation to pursue chemistry, describes their struggles to obtain an education and their efforts to succeed in a field in which there were few African American men, much less African American women, and details their often quite significant accomplishments. The book looks at chemists in academia, industry, and government, as well as chemical engineers, whose career path is very different from that of the tradition chemist, and it concludes with a chapter on the future of African American women chemists, which will be of interest to all women interested in a career in science--

african american scientist black history month: The Biographical Dictionary of Scientists David Abbott, 1986 Contains a chronological introduction, alphabetical arrangement of entries, glossary, diagrams, and index.

african american scientist black history month: Counting on Katherine: How Katherine Johnson Saved Apollo 13 Helaine Becker, 2018-06-19 Learn how Katherine Johnson saved Apollo 13.

african american scientist black history month: Dream Big! Abigail Harrison, 2021-01-19 From Astronaut Abby, the dynamic founder of The Mars Generation, comes a book about dreaming big, reaching for the stars, and making a plan for success! From the age of four, Abigail Harrison knew she wanted to go to space. At age eleven, she sat down and wrote out a plan--not just for how to become an astronaut, but how to be the first astronaut to set foot on Mars. With a degree in biology, internships at NASA, and a national organization founded to help kids reach for the stars themselves, Astronaut Abby is well on her way to achieving her dreams--and she wants to help others do the same! In this book, readers will find helpful advice and practical tips that can help set them on the path toward finding, reaching for, and achieving their goals. With examples from Abby's own life, interactive activities to get readers going, and plenty of fun illustrations along the way, this is the perfect guide for anyone--of any age--with big dreams and plenty of determination. It's time to reach for the stars! Praise for Dream Big!: With friendly encouragement . . . the content and approach are general enough to appeal both to STEM-oriented fans of the author as well as those whose interests lie in other areas . . . Fun and helpful. --Kirkus Reviews Any young person who wants to achieve their dreams will find this comprehensive book helpful. --Booklist The conversational style is easy to understand. . . . There are eye-catching fonts, icons, think bubbles, and callouts. . . . A

recommended purchase for middle school and high school libraries. Counselors assisting high schoolers with college preparation and educators teaching leadership classes will find many of the journaling activities very useful. --School Library Journal

african american scientist black history month: The Jazz of Physics Stephon Alexander, 2016-04-26 A spectacular musical and scientific journey from the Bronx to the cosmic horizon that reveals the astonishing links between jazz, science, Einstein, and Coltrane More than fifty years ago, John Coltrane drew the twelve musical notes in a circle and connected them by straight lines, forming a five-pointed star. Inspired by Einstein, Coltrane put physics and geometry at the core of his music. Physicist and jazz musician Stephon Alexander follows suit, using jazz to answer physics' most vexing questions about the past and future of the universe. Following the great minds that first drew the links between music and physics-a list including Pythagoras, Kepler, Newton, Einstein, and Rakim — The Jazz of Physics reveals that the ancient poetic idea of the Music of the Spheres, taken seriously, clarifies confounding issues in physics. The Jazz of Physics will fascinate and inspire anyone interested in the mysteries of our universe, music, and life itself.

african american scientist black history month: A Book of Medical Discourses: in Two Parts Rebecca Lee Crumpler, 2023-12-18 Reprint of the original, first published in 1883.

african american scientist black history month: Sisters in Science Diann Jordan, 2006 Author Diann Jordan took a journey to find out what inspired and daunted black women in their desire to become scientists in America. Letting 18 prominent black women scientists talk for themselves, Sisters in Science becomes an oral history stretching across decades and disciplines and desires. From Yvonne Clark, the first black woman to be awarded a B.S. in mechanical engineering to Georgia Dunston, a microbiologist who is researching the genetic code for her race, to Shirley Jackson, whose aspiration led to the presidency of Rensselaer Polytechnic Institute, Jordan has created a significant record of women who persevered to become firsts in many of their fields. It all began for Jordan when she was asked to give a presentation on black women scientists. She found little information and little help. After almost nine years of work, the stories of black women scientists can finally be told.

african american scientist black history month: *A Domestic Cook Book* Malinda Russell, 1866

african american scientist black history month: George Washington Carver Linda O. McMurry, Linda McMurry Edwards, 1981 She also sets out how these roles served both whites and blacks; reminds the reader of Carver's personal and circumstantial reasons for not demurring; and reaffirms, in particular, his impact on individuals (prominent among whom was Southern radical Howard Kester--viz. Anthony Dunbar's *Against the Grain*, above). An intellectually satisfying study and no less an affecting biography.

african american scientist black history month: Beyond Banneker Erica N. Walker, 2014-05-09 Erica N. Walker presents a compelling story of Black mathematical excellence in the United States. Much of the research and discussion about Blacks and mathematics focuses on underachievement; by documenting in detail the experiences of Black mathematicians, this book broadens significantly the knowledge base about mathematically successful African Americans. Beyond Banneker demonstrates how mathematics success is fostered among Blacks by mathematicians, mathematics educators, teachers, parents, and others, a story that has been largely overlooked by the profession and research community. Based on archival research and in-depth interviews with thirty mathematicians, this important and timely book vividly captures important narratives about mathematics teaching and learning in multiple contexts, as well as the unique historical and contemporary settings related to race, opportunity, and excellence that Black mathematicians experience. Walker draws upon these narratives to suggest ways to capitalize on the power and potential of underserved communities to respond to the national imperative for developing math success for new generations of young people.

african american scientist black history month: Black Inventors Kathy Trusty, 2021-06-29 Discover 15 inventors and inventions that changed the world in this guide for kids ages 8 to 12

Throughout history, Black inventors have achieved some of the world's greatest advancements in science, technology, engineering, and math. This book highlights 15 men and women who made a big impact with their inventions—from Marie Van Brittan Brown, who created the first home security system, to Mark Dean, who invented the personal computer. Learn all about each inventor's creative process, their invention, and the way it's benefited our world. The first Black man of science—Explore how Benjamin Banneker used his knowledge of math and science to build the first wooden clock, create an almanac, and help design the city that became Washington, D.C. An innovator in Black hair care—Learn how Lyda Newman became an inventor at the early age of 14, when she engineered an improved hairbrush design that made it easier and more affordable to properly care for Black hair. A web technology expert—Find out how Lisa Gelobter developed internet technology inventions that people rely on every day, including web animation, GIFs, and online videos. Take a journey through the stories of Black inventors and their inventions, with this guide designed just for kids.

african american scientist black history month: *Buzzing with Questions* Janice N. Harrington, 2020-06-16 The story of Charles Henry Turner, the first Black entomologist — a scientist who studies bugs — is told in this fascinating book for young readers. Can spiders learn? How do ants find their way home? Can bugs see color? All of these questions buzzed endlessly in Charles Henry Turner's mind. He was fascinated by plants and animals and bugs. And even when he faced racial prejudice, Turner did not stop wondering. He constantly read, researched, and experimented. Author Janice Harrington and artist Theodore Taylor III capture the life of this inspiring scientist and educator in this nonfiction picture book, highlighting Turner's unstoppable quest for knowledge and his passion for science. The extensive back matter includes an author's note, time line, bibliography, source notes, and archival images.

african american scientist black history month: *Have You Thanked an Inventor Today?* Patrice McLaurin, 2016-05-01 *Have You Thanked an Inventor Today?* is a journey into the often forgotten contributions of African-American inventors, that contributed to the American landscape. This book was written to appeal to African-American youth, inspiring creative thought and innovation. It was also written to demonstrate to children how the genius of African-American minds is utilized on a daily basis. Biographies about each inventor, as well as activity sheets are included in the book to further stimulate the minds of young readership.

african american scientist black history month: *Even the Rat Was White* Robert V. Guthrie, 2004 The classic edition of *Even the Rat Was White* presents a history of prejudice within the field of Social Psychology--now at a more affordable cost! *Even the Rat Was White* views history from all perspectives in the quest for historical accuracy. Histories and other background materials are presented in detail concerning early African-American psychologists and their scientific contributions, as well as their problems, views, and concerns of the field of social psychology. Archival documents that are not often found in mainstream resources are uncovered through the use of journals and magazines, such as the *Journal of Black Psychology*, the *Journal of Negro Education*, and *Crisis*. The text is divided into three parts. Part I, *Psychology and Racial Differences*, expands and updates historical materials that helped form racial stereotypes and negative views towards African-Americans. Part II, *Psychology and Psychologists*, is updated with specifics of what and how psychology was taught in the pre-1970 Black colleges, and brings forward the contributions of Black psychologists. Part III, *Conclusion*, discusses the implication of the previous chapters and the impact of new historical information on the field of psychology.

african american scientist black history month: *Rising Above the Gathering Storm* Institute of Medicine, National Academy of Engineering, National Academy of Sciences, Committee on Science, Engineering, and Public Policy, Committee on Prospering in the Global Economy of the 21st Century: An Agenda for American Science and Technology, 2007-03-08 In a world where advanced knowledge is widespread and low-cost labor is readily available, U.S. advantages in the marketplace and in science and technology have begun to erode. A comprehensive and coordinated federal effort is urgently needed to bolster U.S. competitiveness and pre-eminence in these areas. This

congressionally requested report by a pre-eminent committee makes four recommendations along with 20 implementation actions that federal policy-makers should take to create high-quality jobs and focus new science and technology efforts on meeting the nation's needs, especially in the area of clean, affordable energy: 1) Increase America's talent pool by vastly improving K-12 mathematics and science education; 2) Sustain and strengthen the nation's commitment to long-term basic research; 3) Develop, recruit, and retain top students, scientists, and engineers from both the U.S. and abroad; and 4) Ensure that the United States is the premier place in the world for innovation. Some actions will involve changing existing laws, while others will require financial support that would come from reallocating existing budgets or increasing them. *Rising Above the Gathering Storm* will be of great interest to federal and state government agencies, educators and schools, public decision makers, research sponsors, regulatory analysts, and scholars.

african american scientist black history month: The Mis-education of the Negro Carter Godwin Woodson, 1969

african american scientist black history month: Odyssey in Climate Modeling, Global Warming, and Advising Five Presidents Warren Washington, 2007-05 Warren M. Washington, Senior Scientist at the National Center for Atmospheric Research in Boulder, Colorado, was among the first scientists to pioneer the development of climate models that are used for evaluation of humankind's impact on the global environment. His modeling work has helped understand climate change including global warming. Over the last 30 years, he has had Presidential Appointments under the Carter, Reagan, Clinton, and G.W. Bush administrations and he has served on many science committees and the including National Science Board, which he chaired from 2002 to 2006. He is a former President of the American Meteorological Society and a member of both the National Academy of Engineering and the American Philosophical Society. This autobiography provides information about how he became a scientist and his insights into science policy. Throughout the book, footnotes and internet web sites are used were more information is provided.

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african american scientist black history month: Pain Management and the Opioid Epidemic National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Health Sciences Policy, Committee on Pain Management and Regulatory Strategies to Address Prescription Opioid Abuse, 2017-09-28 Drug overdose, driven largely by overdose related to the use of opioids, is now the leading cause of unintentional injury death in the United States. The ongoing opioid crisis lies at the intersection of two public health challenges: reducing the burden of suffering from pain and containing the rising toll of the harms that can arise from the use of opioid medications. Chronic pain and opioid use disorder both represent complex human conditions affecting millions of Americans and causing untold disability and loss of function. In the context of the growing opioid problem, the U.S. Food and Drug Administration (FDA) launched an Opioids Action Plan in early 2016. As part of this plan, the FDA asked the National Academies of Sciences, Engineering, and Medicine to convene a committee to update the state of the science on pain research, care, and education and to identify actions the FDA and others can take to respond to the opioid epidemic, with a particular focus on informing FDA's development of a formal method for incorporating individual and societal considerations into its risk-benefit framework for opioid approval and monitoring.

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will accompany the articles. This superb reference work will complement any library and be of special interest to students and scholars of American and African American history.

african american scientist black history month: George Washington Carver Christina Vella, 2015-09-14 Christina Vella received a PhD. in Modern European and U.S. history from Tulane University, where she is a Visiting Professor. A consultant for the U.S. State Department, she lectures widely on historical and biographical topics.

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african american scientist black history month: *The Bible is Black History* Theron D Williams, 2022-08-03 We live in an age when younger African-American Christians are asking tough questions that previous generations would dare not ask. This generation doesn't hesitate to question the validity of the Scriptures, the efficacy of the church, and even the historicity of Jesus. Young people are becoming increasingly curious about what role, if any, did people of African descent play in biblical history? Or, if the Bible is devoid of Black presence, and is merely a book by Europeans, about Europeans and for Europeans to the exclusion of other races and ethnicities? Dr. Theron D. Williams makes a significant contribution to this conversation by answering the difficult questions this generation fearlessly poses. Dr. Williams uses facts from the Bible, well-respected historians, scientists, and DNA evidence to prove that Black people comprised the biblical Israelite community. He also shares historical images from the ancient catacombs that vividly depict the true likeness of the biblical Israelites. This book does not change the biblical text, but it will change how you understand it. This Second Edition provides updated information and further elucidation of key concepts. Also, at the encouragement of readership, this edition expands some of the ideas and addresses concerns my readership felt pertinent to this topic.

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