

Videos

African Americans in Science, Mathematics, Medicine and Inventions

Grades 4 – 10

The video is a time travel adventure that highlights the history of African Americans' contribution in science, medicine, and invention. Explore contributions of African Americans with imaginative, hands-on puzzles and activities that can be used as a 5 day learning module or to supplement basic texts.

Family Math

Grades 5 – Adult

This video accompanies a book about parents and children working together, learning to like mathematics, and activities that make math fun for children. Included are important mathematics topics such as word problems, logical reasoning, measurement, geometry, spatial thinking, probability, statistics, calculator use, estimation, and others. Please request the book separately. 24 minutes.

General Resources

101 Short Problems

by Jean Kerr Stenmark

Grades 4 – 9

An English/ Spanish workbook that is designed to attract the female student to mathematics.

Family Math

by Jean Kerr Stenmark

Grades 1 – 6

This book teaches parents and children how to work together to learn mathematics and shows teachers how to set up a family math workshop that allows parents to help their children learn math at home. It includes important word problems, logical reasoning, measurement exercises, and basic geometry along with many more topics. ** Also available in Spanish.**

Math: A Rich Heritage

Grades 9 – 12

This text explores the mathematical achievement of African American men and women in math related careers. Scenarios relating to the choices students make concerning math and the effect on their success in college and career choices are discussed. It also includes a teacher's guide with background information, reproducible material, lesson plans/answer keys, parental information, and a resource directory.

Math Across Cultures

by Maurice Bazin

Grades 9 – 12

The activities in this book present multicultural, hands on activities that allow the reader to find new discoveries with each answer completed.

Math at Work

Grades 6 – Adult

Thirteen women working in nontraditional careers ranging from helicopter pilot to machinist, demonstrate how their knowledge of mathematics is useful in their career choices. This book is useful for career curriculums.

A Mindset for Math

by Judy Genshaft and Jack Naglieri

Grades 3 – 6

Techniques for identifying and working with math-anxious girls are provided in this book designed to show teachers how to reduce student anxiety and improve student attitudes towards mathematics.

Multicultural Math

by Sharon Vogt

Grades K – 3

This resource assists teachers in promoting cultural awareness with mathematical concepts through the use of time measurements, geography, games, and hobbies from around

the world. Each section consists of activities, discussion questions and historical information.

Student Team Learning: Consumer Mathematics

Grades 9 – 10

This teacher's manual consisting of game quizzes, work/answer sheets, and team learning activities contains twenty-six mathematics objectives for consumer mathematics designed for use in general mathematics classes.

Teacher/Adult Resources

Building Math Confidence

by Margaret Franklin

Activities and information on teacher-student interaction patterns, girls' learning styles, and the importance of parents involvement in math related activities. Volume 1- Elementary Teacher's Guide. Volume 2 - Junior High Teacher's Guide.

Communicative Math and Science Teaching

This resource aims to help teachers integrate language and academic mastery in math and science by emphasizing cooperative learning, peer tutoring, the use of games, sensitivity to individual learning requirements, patience and encouragements in the development of language skills, and cooperative teaching.

Computer Equity in Math and Science: A Trainers Workshop Guide

by Jo Schuchat Sanders and Mary McGinnis

The goal of this three-hour workshop is to give math teachers, science teachers, and administrators special computer equity strategies for overcoming girls' computer avoidance, thereby promoting girls' interest in mathematics, science, and computers.

Gender Equity Right from the Start

by Jo Sanders, Janice Koch, and Josephine Urso

This book consists of 200 teaching activities meant primarily for methods instructors in elementary and secondary math, science, and technology education. It is accompanied by a separate volume that includes materials needed for the activities plus a resources section.

Math for Humans: Teaching Math Through Seven Intelligences

by Mark Wahl

An overview to multiple intelligence theory is provided along with 90 engaging activities on ready-to-go masters. All activities are accompanied with teacher notes.

Mathematics Education for a Changing World

by Stephen S. Willoughbury

The author offers reform in teaching mathematics in a contemporary technological society.

Nurturing At-Risk Youth in Math and Science: Curriculum and Teaching Considerations

by Randolph Tobias

How to nurture at-risk youth in math and science strategies for teachers, teacher educators, and administrators are reviewed. Positive creative programs presently in existence are described.

Windows of Opportunity: Mathematics For Students With Special Needs

by Carol A. Thornton and Nancy S. Bley, eds.

This professional resource is helpful for both regular and special education teachers who work with students with disabilities and students who are gifted or talented in mathematics.

Posters

The following posters depicting mathematical innovations and achievements of different countries from around the world are available for checkout from the resource library.

Math of Africa

Math of Arabia

Math of the Aztecs

Math of Babylon

Math of China

Math of Egypt

Math of the Inca

Math of India

Math of Ireland

Math of Japan

Math of Korea

Math of Mexico

Math of the Navajo

Math of Russia

Math of the United States

Math Around the World

A world map with the different people who have contributed to the study of mathematics.

A World of Mathematics

Shows many world regions and people who contributed to the study of mathematics, science, and technology. Accompanies the book: Multiculturalism in Mathematics, Science, and Technology.

Outstanding Women in Mathematics/ Science

A photo set of women in math and science.

Women in Science and Math

Portraits of famous women in math and science, including: Lydia Villa-Komaroff, Gertrude B. Elion, and Chien-Shing Wu.

For More Information:

The resources listed are just a sample of those available from the Midwest Center. Educators may search the library's bibliography for information on Math Resources and other topics at the MEAC web site (<http://meac.educ.ksu.edu>). Materials may be requested on-line or by calling the number listed below.

Midwest Equity Assistance Center Resource Library

Dr.. Charles Rankin, Director
Kansas State University
401 Bluemont Hall
Manhattan, KS 66506
785-532-6408 or
1-800-232-0133 Ext. 6408



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