



Math Resources from PBS

Elementary

Curious George (Grades PreK-2)

<http://pbskids.org/curiousgeorge>

As children follow George on his on-air and online adventures, they are introduced to key concepts in math, science, and engineering. Teachers can use the Discovery Guide (three hands-on thematic classroom investigations) and fun educational online games to enhance their math lessons.

Cyberchase (Grades 3-6)

<http://pbskids.org/cyberchase>

This award-winning series features exciting adventures that teach core math concepts. The Web site provides a wealth of math-related lesson plans, online games, and offline activities.

The Democracy Project (Grade 3-6)

<http://pbskids.org/democracy/educators/index.html>

This site offers various lesson plans and math activities that relate to the American democratic process, including exercises about the electoral process, national economy, and mapping.

Mathline

Grades K-2: http://www.pbs.org/teachers/mathline/lessonplans/search_k-2.shtm

Grades 3-5: http://www.pbs.org/teachers/mathline/lessonplans/search_3-5.shtm

Search the complete catalog on <http://www.pbs.org/teachers/math>

Mathline provides over one hundred free standards-based lesson plans and video lessons. Teachers can search this comprehensive catalog by keyword, topic, or grade range.

Misunderstood Minds

<http://www.pbs.org/wgbh/misunderstoodminds/math.html>

This PBS special and its Web site offer resources to help students, parents, and educators understand and overcome the challenges of learning disabilities. The mathematics section of this site provides exercises and teaching strategies to help students with specifically math-related disabilities.

PBS Parents Guide to Early Math (Grades PreK-2)

<http://www.pbs.org/parents/earlymath>

This bilingual Web site features math teaching tips, fun learning activities, recommended books, and a child development trackers with early math milestones.

ZOOM (Grades 3-5)

<http://pbskids.org/zoom/activities/sci>

This program and site promote activity-based learning about science and engineering and include fun math-related exercises like detecting patterns, taking measurements, and using spatial logic.

Secondary

First Measured Century (Grades 6-12)

<http://www.pbs.org/fmc>

This three-hour program tells the history of America by the numbers through the eyes of those that did the measuring and interpreting, from George Gallup to Alfred Kinsey. Its Web site provides lessons and activities that integrate math education with social science data, concepts of measurement, and the social consequences of measurement.

Ken Burns American Stories: Baseball (Grades 6-8)

<http://www.pbs.org/kenburns/baseball/teachers>

This program uses the history of baseball as a powerful metaphor for the struggles and triumphs of the past 150 years of American history. Its Web site includes several themed lesson plans that energize lessons in geometry and economics with the fun and excitement of baseball.

Lewis and Clark (Grades 6-8)

http://www.pbs.org/lewisandclark/class/idx_les.html

This four-hour television documentary chronicles the dangers and discoveries of Lewis and Clark's expedition across the West. Several related lesson plans available on the Web site use the Lewis and Clark journey to frame crucial mathematics concepts like geographic mapping, statistics, estimation, and data analysis.

Mathline

Grade 6-8: http://www.pbs.org/teachers/mathline/lessonplans/search_6-8.shtm

Grade 9-12: http://www.pbs.org/teachers/mathline/lessonplans/search_9-12.shtm

Search the complete catalog on <http://www.pbs.org/teachers/math>

Mathline provides over one hundred free standards-based lesson plans and video lessons. Teachers can search this comprehensive catalog by keyword, topic, or grade range.

NewsHour Extra: Math and Economics (Grades 9-12)

<http://www.pbs.org/newshour/extra/students/math>

This site contains news reports written specifically for students based on stories from The NewsHour with Jim Lehrer, the nightly news broadcast on PBS. The teachers' resources section offers lesson plans, discussion questions, activities, and news stories to help teach math and economics in the context of current events.

NOVA (Grades 6-12)

<http://www.pbs.org/wgbh/nova>

The "Math and Physics" archive on the Web site of this award-winning series of science documentaries provides abundant teaching resources, including lesson plans, activities, and online videos on such diverse topics as Einstein's Theory of Relativity, decoding wartime encryptions, and Wall Street economics. Teachers can also sign up to receive an e-newsletter from NOVA with information about upcoming on-air and online resources.

Scientific American Frontiers (Grades 5-12)

<http://www.pbs.org/saf/educators.htm>

This program hosted by Alan Alda explores the latest trends in science, medicine, technology, and the environment. Each program is accompanied by an online, printable teaching guide with activity ideas and quizzes. To browse the math-focused lesson plans, use the Advanced Search available on the PBS Teachers Web site. Enter the keywords "Scientific American Frontiers" and narrow your search to the subject "Math" and the grade level of your choice.

Visit www.pbs.org/teachers for many more on-air and online math resources!