

Materials to Support Teaching Mathematics Through Problem Solving

As teachers have grown more and more interested in teaching mathematics by engaging students in classroom problem-solving activities, they have found traditional expository textbook formats to be of little help. This has inspired many teachers to develop their own materials for support of instruction. But that is an enormous task.

In 1991 the national Science Foundation Education materials Development program began support of what was to become 13 projects to develop mathematics curriculum material that would support implementation of problem-based teaching. Each of those projects produced full-service curriculum materials that are now available commercially.

Information about the various projects and their products can be obtained through four implementation centers and the individual projects themselves. First contact can be made through web-addresses in the following list:

Projects at All Levels: The K – 12 Mathematics Curriculum Center (www.edc.org/mcc)

Elementary Projects: The ARC Center (www.arccenter.comap.com)

Everyday Mathematics (<http://everydaymath.uchicago.edu>)

Investigations in Number Data, and Space TERC

(www.terc.edu/investigations)

Math Trailblazers (www.math.uic.edu/IMSE/timsmath.html)

Middle School Projects: The ShowMe Center (www.showmecenter.Missouri.edu/)

Connected Mathematics Project (www.math.msu.edu/cmp)

Mathematics in Context (www.ebmic.com)

MathScape Curriculum Center (www.edc.org/mathscape)

MATHThematics Project

(www.mcdougallittell.com/bookspots/math_thematics.cfm)

Pathways/MMAP Curriculum (www.mmmap.wested.org)

High School Projects: COMPASS (www.ithaca.edu/compass)

Core-Plus Mathematics Project (www.wmich.edu/cmp)

Interactive Mathematics Project (www.mathimp.org)

MATH Connections (www.mathconnections.com)

Applications /Reform in Secondary Education

(www.comap.com/highschool/projects)

SIMMS Integrated Mathematics

(www.montana.edu/~wwwsimms/Materials%20.htm)

Web Resources for Teaching Mathematics Through Problem Solving

[ENC: A K-12 math and science teacher center.](#)

... **ENC** is a K-12 **math** and science teacher center. Visit **Lessons & Activities**, Classroom Calendar, Digital Dozen, or **ENC** Focus. Or just Ask **ENC**. ...
Description: Provides access to **ENC's** collection of teaching materials for K-12 mathematics and science; the online...
Category: Reference > Education > ... > Research
www.enc.org/ - 31k - Apr 4, 2003 - [Cached](#) - [Similar pages](#)

[Imagine the Universe! Lesson Plans](#)

... **Math/Sp Sci**, 9-12, Problem Solving Communication Connections Algebra Statistics, ... within the Laboratory for High Energy Astrophysics at **NASA's** Goddard Space Flight ...
imagine.gsfc.nasa.gov/docs/teachers/lesson_plans.html - 18k - [Cached](#) - [Similar pages](#)

NCTM Illuminations

... The **NCTM Illuminations** Project is part of the MarcoPolo ... The **Illuminations** Web site is always growing ... We add more lesson plans, **i-Math** Investigations, Inquiry on ...
Description: Designed to "illuminate" the new **NCTM** Principles and Standards for School Mathematics.
Category: Science > Math > Education > Teaching Resources
illuminations.nctm.org/index2.html - 49k - Apr 4, 2003 - [Cached](#) - [Similar pages](#)

[TeacherSource . Math | PBS](#)

Math. To view **PBS lessons** and activities, select a grade range: ...
TeacherLine. Discover innovative online professional development in **math** and technology. ...
Description: For teachers of grades K-12. Each month, Mathline features a specific **math** topic, with an in-depth...
Category: Science > Math > Education > Teaching Resources
www.pbs.org/teachersource/math.htm - 34k - Apr 4, 2003 - [Cached](#) - [Similar pages](#)