



The Access Center

Improving Outcomes for All Students K-8

District Information Sharing Community Newsletter

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Welcome to the first newsletter for you, The Access Center's District Information Sharing Community! We'll be sending you a new newsletter every other month that's full of resources focused on a specific topic. This month, you'll find numerous Web-based resources on **Math and Virtual Manipulatives**, which are effective instructional strategies.

If you have questions or comments, e-mail us at jbootel@air.org or call 202/403-5512. Visit the Access Center's Web site at <http://www.k8accesscenter.org>

National Library of Virtual Manipulatives for Interactive Mathematics

<http://matti.usu.edu/nlvm/nav/index.html>

The project is supported by the National Science Foundation and is aimed toward creating an online library of virtual manipulatives for mathematics instruction in grades K-12. The interactive, web based manipulatives are mostly in the form of Java applets. The virtual library is broken into clusters of grades: PreK-2, 3-5, 6-8, and 9-12. For each grade group, there are manipulatives for numbers and operations, algebra, geometry, measurement, and data analysis and probability. CDs are also available for purchase.

On-Line Mathematics Manipulatives

<http://oneweb.utc.edu/~deborah-mcallister/onlinemath.html>

Run by the University of Tennessee, this site provides an index of other websites providing manipulatives as well as links to specific activities. Topics include pattern blocks, flash cards, and algebra tiles.

MathDL

<http://www.mathdl.org/jsp/index.jsp>

The MAA Mathematical Science Digital Library provides online resources for both students and teachers of mathematics. The site has Java applets, interactive modules, & Flash presentations for studying numerical & graphical solutions of differential equations, parametric representations of curves, conic formulae, Euler's analysis of the Genoese Lottery, Van Schooten's ruler constructions, Riemann sums, and how to use calculators.

Project Interactive

<http://www.shodor.org/master/interactivate/>

The goal of Project Interactive is to create, collect, evaluate, and disseminate interactive Java based courseware for exploration in mathematics. The site provides lessons, activities, and tools for teachers and students. Activities and lessons are arranged according to the NCTM Principles and Standards for Mathematics and include number and operation concepts, geometry and measurement concepts, function and algebra concepts, and probability and data analysis concepts. The website also provides a dictionary of important mathematical terms used in the discussions and lessons. The site is maintained by the Shodor Education Foundation, Inc.

NCTM: Illuminations

<http://illuminations.nctm.org/>

Illuminations is a partnership between the National Council of Teachers of Mathematics and MarcoPolo. The site provides lessons, standards, tools, and web resources. The tools section provides interactive applets for learning and teaching math. The tools are designed for students in grades PreK-12 and cover a variety of topics. The web resources table provides access to over 1100 reviewed internet math resources. The table is divided into different grade groups (PreK-2, 3-5, 6-8, and 9-12) and standards (number and operations, algebra, geometry, measurement, data analysis and probability, problem solving, reasoning and proof, communication, connections, and representation). There is also an online catalogue of products and publications for sale.