Amazing Math Technology Interventions

David Davis . david@fdlrstech.com . Ian Prietz . ian@fdlrstech.com

Interventions/Instructional Support

FASTT Math – http://www.tomsnyder.com
> Software that targets the development of fluency in addition, subtraction, multiplication, and division.

Go Solve – http://www.tomsnyder.com
> Uses graphic organizers to help students plan for solving word problems in addition, subtraction, multiplication, and division.

InspireData – http://www.inspiration.com
> Applies proven strategies of visual learning to data literacy; supporting strong critical thinking.

Virtual Manipulatives

bright clique – http://www.indivisuallearning.com
> A flexible set of digital tools for demonstrating key mathematical concepts on computers, projectors, or interactive whiteboards.

Virtual rulers –
> http://www.desktopruler.com/products-dr.htm
> http://www.svet-soft.com/ruler.shtml
> http://www.spadixbd.com/freetools/
> http://www.downloadjunction.com/product/store/15482/index.html

Classroom Suite (IntelliMathics) – http://www.intellitools.com
> Includes animation, manipulatives, text to speech, and multimedia to demonstrate basic math concepts.

Visual Fractions - http://www.visualfractions.com/
> Includes online tools for learning fractions, PowerPoints to help teach fractions, downloadable worksheets, and downloadable software for creating circle fractions.

Illuminations - http://illuminations.nctm.org/
> A collection of online, standard-based virtual manipulatives and lessons, to make math come alive in the classroom and at home.

BlockCad - http://web.telia.com/~u16122508/proglego.htm
> A free Win virtual Lego land.

Lego Factory - http://factory.lego.com/
> A free online virtual Lego land.

NLVM – http://nlvm.usu.edu/en/nav/vlibrary.html
> Collection of online manipulatives and visualizations for all grade levels.

Pintar Virtual Labs – http://pintarmedia.com/vprod
> An interactive math toolbox suite targeting fractions, shapes, numbers, and measuring.

SmartBoard Software –
http://www2.smarttech.com/st/en-US/Support/Downloads/SBS/Windows/SBSv97Win.htm
> Includes a collection of virtual math tools. Students can run the software on their own computers to practice mathematical concepts.

Simulations/Visualizations

MathPad & MathPad Plus – http://www.intellitools.com
> Simulated "paper and pencil" basic arithmetic software for students who need to use a computer to write with.

Virtual Pencil - http://www.hentermath.com/
> Simulated "paper and pencil" arithmetic and algebra software for students who need to use a computer to write with.

Broken Calculator – http://seeingmath.concord.org/broken_calculator
> Online simulation of a broken calculator. Students must think through how to solve problems using the keys available.

Explore Learning – http://www.explorelearning.com
> Extensive online set of mathematic simulations and visualizations.

SELECT Math - http://boston.k12.ma.us/teach/technology/select/index.html
> Aligns virtual manipulatives and visualizations with standards

GeoGebra - http://www.geogebra.org/cms/
> Virtual tools for geometry, algebra, and calculus

Eduscapes - http://eduscapes.com/sessions/smartboard
> Includes links to a variety of simulations and visualizations

Homework Helpers

Animated Math Dictionary -
http://www.harcourtschool.com/glossary/math2/index_temp.html
> Provides basic definitions of math terms, along with text to speech so students can hear the definitions and visualizations.

A Math Dictionary for Kids –
> http://www.teachers.ash.org.au/jeather/maths/dictionary.html

WebMath – www.webmath.com
> Online tool that helps students solve math problems, showing step by step solutions. General math through calculus.

GoMath - http://www.gomath.com/
> Online tool that helps students solve math problems. Includes algebra and geometry calculators.

Hot Math - http://hotmath.com/
> Provides online help and guidance for math problems in most text books.

Algebra Word Problem Solver - http://www.cyberedinc.com/
> Software that can solve word problems.

Conversion Tools – http://www.convertit.com
> Basic online collection of conversion tools.

Math Tips for Students with Visual Impairments - http://www.tsbvi.edu/math/
> Ideas and recommendations for helping students with visual impairments learn math concepts.

Algebra Solver – http://www.algebrasolver.com/index.shtml
> An interactive, algebraic problem solver and graphing tool.

Microsoft Math - http://www.microsoft.com/math/default.mspx
> An all-in-one math homework solution. Solve equations, graph functions, use a fully-functional graphing calculator, solve triangles, and convert standard units.

WebGraphing - http://www.webgraphing.com/
> Online equation-graphing environment, from simple to advanced calculations.

Cosmeo - http://www.cosmeo.com/math/
> A fee-based, homework video-tutor for many national textbooks.

Online Resource "CD" – http://www.fdlrs.com/ResourceKit