



# Amazing Math Toolbox for Teachers : ATIA

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[www.fdlrstech.com](http://www.fdlrstech.com) (check under "Handouts" for this document)

## Physical / Accessibility Support

### *Calculators*

- Calculator Collection (Win . Mac9) - <http://www.riverdeep.com> . basic set of calculators that includes a fraction calculator
- Big Calculator (Win) - <http://www.sensorysoftware.com/bigcalculator.html> . a free basic calculator that can be adjusted for really big buttons
- KoalaCalc (MacOSX) - <http://www.macropodsoftware.com/koalacalc/index.html> . free simple and scientific mode calculator
- Calc Thingy (MacOSX) - <http://liquidbinary.com/software/> . a simple interface but fairly powerful calculator
- MoffSoft FreeCalc (Win) - <http://www.moffsoft.com/freecalc.htm> . a great basic calculator with adjustable size and color schemes, and a simulated paper tape display
- AlgeKalk (MacOSX) - <http://goldfishsoft.com/algekalk.html> . simple utility that factors numbers, give square root, converts decimals, and more
- FrakKalk (MacOSX) - <http://goldfishsoft.com/frakkalk.html> . simple utility for adding, subtracting, multiplying and dividing fractions
- Online Calculators and Algebra Tools - [http://go.hrw.com/hrw.nd/gohrw\\_rls1/pKeywordResults?keyword=Mb1+Tools](http://go.hrw.com/hrw.nd/gohrw_rls1/pKeywordResults?keyword=Mb1+Tools)

### *Virtual Tools*

- Virtual rulers / protractors –
  - <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>
  - <http://www.amblesideprimary.com/ambleweb/mentalmaths/protractor.html>
  - <http://www.amathsdictionaryforkids.com/maths/MDwords/protract.swf>
- Virtual geoboards –
  - <http://nrich.maths.org/content/id/2883/circleAngles.swf>
  - <http://illuminations.nctm.org/LessonDetail.aspx?ID=L554>
  - <http://www.riverdeep.com>
  - Geoboard (Win . Mac9) from Riverdeep (Mighty Math Number Heroes) . geoboard software that includes area and perimeter measurement tools
- 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
- Classroom Suite (IntelliMathics) – <http://www.intellitools.com> . includes animation, manipulatives, text to speech, and multimedia to demonstrate basic math concepts
- GraphTablet (Win) - <http://www.graphtablet.com/graphtablet.html> . free program for creating custom graph paper

- Free Online Graph Paper - <http://incompetech.com/graphpaper/> . free online PDFs of various graph papers. includes an online generator so you can create customized graph paper and print it out
- 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
- Virtual Pencil - <http://www.hentermath.com/> . simulated "paper and pencil" arithmetic and algebra software for students who have vision and/or physical challenges
- Scientific Notebook - <http://www.mackichan.com/> . math writing environment for the computer
- MathTalk - <http://www.metroplexvoice.com/> . speech to math processors
- MathType - <http://www.dessci.com/en/products/mathtype/> . full featured equation editor
- Microsoft Office Equation Editor 2007 - [http://blogs.msdn.com/microsoft\\_office\\_word/archive/2006/10/04/Equations-in-Word-2007.aspx](http://blogs.msdn.com/microsoft_office_word/archive/2006/10/04/Equations-in-Word-2007.aspx)

## Cognitive Support

### *Intervention*

- 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

### *Visual Manipulation / Simulations*

- InspireData – <http://www.inspiration.com> . applies proven strategies of visual learning to data literacy; supporting strong critical thinking
- 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
- NLVM – <http://nlvm.usu.edu/en/nav/vlibrary.html> . collection of online manipulatives and visualizations for all grade levels
- 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
- Broken Calculator – [http://seeingmath.concord.org/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

## Productivity / Homework Support

- Animated Math Dictionary - [http://www.harcourtschool.com/glossary/math2/index\\_temp.html](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>
- Translating Word Problems - <http://www.purplemath.com/modules/translat.htm> . keywords to help with word problem translation
- WebMath – [www.webmath.com](http://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
- Algebra Help – <http://www.algebrahelp.com/calculators> . online tool that helps students solve math problems. Can be read aloud by screen readers
- Hot Math - <http://hotmath.com/> . provides online help and guidance for math problems in most text books
- Conversion Tools – <http://www.convertit.com> . basic online collection of conversion tools
- Equation Wizard (Win) - <http://www.equationwizard.com/> . algebraic equation solver software. Trial version good for 30 equations
- 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

