

K-2 Technology to Support Algebra Lesson Plans

Program Summary	Skills Addressed	Key Features	Recommendations
Animated Math Dictionary	Online	http://www.harcourtschool.com/glossary/math2/index_temp.html	
Animated Math Dictionary is an online resource that includes text, animation, and audio to help student understand basic math terms and concepts. It is free.	Addresses all core math terms and concepts for grades K-6.	Graphics, animation, and audio.	Exploration, support for math journal writing.
Blocks In Motion	Software	http://www.donjohnston.com/catalog/catalog.htm	
Blocks in Motion is a pattern based creativity program that enables students to build patterns, mazes, graphs, and objects on-screen.	Pattern recognition, sequencing, pattern prediction, problem solving, logical thinking, early geometry	On-screen math manipulatives in a highly accessible environment.	Tool for independent practice, re-teaching, guided practices at representation level for all students. Accommodation tool for students who do not have motor ability to manipulate blocks or other concrete objects.
Classroom Suite : IntelliMathics	Software	http://www.intellitools.com	
IntelliMathics is part of the Classroom Suite from IntelliTools. It includes extensive virtual manipulatives and universal access features that enable teachers to create highly accessible math learning activities. It also includes progress reporting features. Teacher created activities can be downloaded from the company web site.	Creating patterns, basic arithmetic, fractions	On-screen math manipulatives (attribute blocks, Venn Hoops, sorting bins, tangrams, base 10 blocks, fraction pieces.) and problem solving activities involving basic arithmetic and fractions. Universal access features such as text-to-speech and switch access are included.	Tool for independent practice, re-teaching, guided practice at representation level for all students. Accommodation tool for students who do not have motor ability to manipulate blocks or other concrete objects. May be used with IntelliKeys, an alternate keyboard.

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Program Summary	Skills Addressed	Key Features	Recommendations
Destination MATH	Software	http://www.riverdeep.net	
Destination MATH is a complete software based math curriculum. It includes instruction, practice, context sensitive guidance, and virtual tools.	All core math subjects K-12.	Sequenced, prescribed instruction in all core math subjects for K-12. Includes a comprehensive student assessment and progress tracking module. Available in English and Spanish.	Independent practice and remediation. Good for students who struggle with math.
Kid Pix	Software	http://www.riverdeep.net/products/kid_pix/kpd4.jhtml	
Kid Pix is a graphic media creation program that supports the development of patterns and designs in a highly creative and engaging environment.	Creation and description of patterns.	Drawing and writing tool. Will speak and record sound. Available in English or Spanish	Practice in creating patterns and designs and then writing or telling about them. Accommodations for students who cannot draw with pencils or crayons.
Kidspiration	Software	http://www.inspiration.com	
Kidspiration provides a graphic rich environment that enables students to organize information through symbol arrangement. Graphic diagrams can quickly convert to text outlines for further description. Text-to-speech is included.	Information organization, symbol and attribute identification	Visual learning tool with easy visual classification tools and features.	Tool for independent practice, re-teaching, guided practice at the representational level for all students. Accommodation for students who do not have motor ability to group concrete objects.

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Mighty Math Zoo Zillions	Software	http://www.ccvsoftware.com	
Fun friends like Ryan the Lion and the Otter Twins guide students through early learning math skills.	Number line concepts, counting, counting money, addition, subtraction, story problems, early 3D geometry	Includes thousands of problems. Has question/answer as well as exploration modes. Tracks student progress and adjusts content accordingly.	Individual practice, exploration and enrichment. Includes single switch access for students who cannot use a keyboard or mouse. Can also be used with a touch window.
Millie's Math House	Software	http://www.ccvsoftware.com	
Millie's Math House is an early learning program that builds fundamental early math skills which engaging the students in seven fun-filled activities.	Explorations of numbers, shapes, sizes, quantities, patterns, sequencing, addition, and subtraction.	Highly interactive early learning program with spoken and graphic instructions. Graphic rich and engaging. Includes switch access for students who have significant motor limitations.	Early math exploration, independent practice. Accommodations include for switch access for students who cannot use a keyboard or mouse.
National Library of Virtual Manipulatives	Online	http://nlvm.usu.edu/en/nav/vlibrary.html	
This web resource provides extensive online manipulatives to use as enrichment and exploration activities with students.	Number operations, algebra, geometry, measurement, data analysis.	Online virtual manipulatives. Text can be read out loud with a talking browser.	Exploration and enrichment. Good for use with a SmartBoard.

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Patterning & Algebra K-3	Software	http://www.ccvsoftware.com	
Students are led through a series of exploratory activities located in a toy store. These activities provide enrichment for PreK, address core concepts for grades K-3, and provide remediation for grade 4.	Number sense, numeration, measurement, geometry, probability, patterning, algebra.	Includes a class manager to track student records and progress. Includes demonstrations of activities as well as written and oral instructions. An on-screen writing journal tool is also included.	Independent practice and exploration.
WebMath	Online	http://www.webmath.com/	
WebMath is a free online resource. Students can type a math problem into WebMath and it will solve it, explaining each step along the way.	General math, K-8 math, algebra, plots & geometry, trigonometry, calculus	Over 100 instant math problem solving calculators with step by step explanations. Over 1,200 problems available as examples for problem solving.	Remediation, homework helper. Good for students with learning disabilities.

3-5 Technology to Support Algebra Lesson Plans

Program Summary	Skills Addressed	Key Features	Recommendations
Animated Math Dictionary Online http://www.harcourtschool.com/glossary/math2/index_temp.html			
<p>Animated Math Dictionary is an online resource that includes text, animation, and audio to help student understand basic math terms and concepts. It is free.</p>	<p>Addresses all core math terms and concepts for grades K-6.</p>	<p>Graphics, animation, and audio.</p>	<p>Exploration, support for math journal writing.</p>
Blocks In Motion Software http://www.donjohnston.com/catalog/catalog.htm			
<p>Blocks in Motion is a pattern based creativity program that enables students to build patterns, mazes, graphs, and objects on-screen.</p>	<p>Pattern recognition, sequencing, pattern prediction, problem solving, logical thinking, early geometry</p>	<p>On-screen math manipulatives in a highly accessible environment.</p>	<p>Tool for independent practice, re-teaching, guided practices at representation level for all students. Accommodation tool for students who do not have motor ability to manipulate blocks or other concrete objects.</p>
Classroom Suite : IntelliMathics Software http://www.intellitools.com			
<p>IntelliMathics is part of the Classroom Suite from IntelliTools. It includes extensive virtual manipulatives and universal access features that enable teachers to create highly accessible math learning activities. It also includes progress reporting features. Teacher created activities can be downloaded from the company web site.</p>	<p>Creating patterns, basic arithmetic, fractions</p>	<p>On-screen math manipulatives (attribute blocks, Venn Hoops, sorting bins, tangrams, base 10 blocks, fraction pieces.) and problem solving activities involving basic arithmetic and fractions. Universal access features such as text-to-speech and switch access are included.</p>	<p>Tool for independent practice, re-teaching, guided practice at representation level for all students. Accommodation tool for students who do not have motor ability to manipulate blocks or other concrete objects. May be used with IntelliKeys, an alternate keyboard.</p>

3-5 Technology to Support Algebra Lesson Plans

Program Summary	Skills Addressed	Key Features	Recommendations
<p>Destination MATH</p> <p>Destination MATH is a complete software based math curriculum. It includes instruction, practice, context sensitive guidance, and virtual tools.</p>	<p style="text-align: center;">Software</p> <p>All core math subjects K-12.</p>	<p style="text-align: center;">http://www.riverdeep.net</p> <p>Sequenced, prescribed instruction in all core math subjects for K-12. Includes a comprehensive student assessment and progress tracking module. Available in English and Spanish.</p>	<p>Independent practice and remediation. Good for students who struggle with math.</p>
<p>FASTT Math</p> <p>FASTT Math is a research based computational fluency program created for students who have difficulties mastering basic arithmetic operations at a level to support success in higher-order problem solving.</p>	<p style="text-align: center;">Software</p> <p>Fluency in addition, subtraction, multiplication, and division. Operation recall.</p>	<p style="text-align: center;">http://www.tomsnyder.com</p> <p>Assessment based activities that are short and skill specific. Customizable per student. Easily switch between English and Spanish. Includes universal access features.</p>	<p>Independent practice and remediation. Math practice and learning for students with learning disabilities.</p>
<p>Fundamental Math : BoxerMath</p> <p>Fundamental Math is an online math curriculum that addresses core math concepts for grades 3-5. It includes assessment tools, student progress reporting, curriculum enrichment activities, and classroom integration guides.</p>	<p style="text-align: center;">Online</p> <p>Number concepts, addition, subtraction, multiplication, division, fractions, decimals, geometry, algebra, charts, graphs, probability.</p>	<p style="text-align: center;">http://www.boxermath.com/courses.shtml</p> <p>Standards aligned basic math curriculum. Includes student progress management tools, enrichment activities, and a math laboratory where students can explore on their own.</p>	<p>Individual instruction, exploration, enrichment, remediation.</p>

3-5 Technology to Support Algebra Lesson Plans

Program Summary	Skills Addressed	Key Features	Recommendations
<p>Graph Master Deluxe</p> <p>Graph Master is a user-friendly graphing program that include 9 different graph types. Accompanying activities and data help teachers and students to quickly work with real world data problems.</p>	<p style="text-align: center;">Software</p> <p>Organizing and interpreting data; mean, median, mode; fractions, decimals, precentages.</p>	<p style="text-align: center;">http://www.tomsnyder.com</p> <p>Program includes 9 graph types, the ability to create formulas and calculate statistics, and the ability to filter and sort data for comparison activities. Includes an on-screen notebook for data collection and reflection.</p>	<p>Exploration, independent practice, and enrichment activities.</p>
<p>Kid Pix</p> <p>Kid Pix is a graphic media creation program that supports the development of patterns and designs in a highly creative and engaging environment.</p>	<p style="text-align: center;">Software</p> <p>Creation and description of patterns.</p>	<p style="text-align: center;">http://www.riverdeep.net/products/kid_pix/kpd4.jhtml</p> <p>Drawing and writing tool. Will speak and record sound. Available in English or Spanish</p>	<p>Practice in creating patterns and designs and then writing or telling about them. Accommodations for students who cannot draw with pencils or crayons.</p>
<p>Kidspiration</p> <p>Kidspiration provides a graphic rich environment that enables students to organize information through symbol arrangement. Graphic diagrams can quickly convert to text outlines for further description. Text-to-speech is included.</p>	<p style="text-align: center;">Software</p> <p>Information organization, symbol and attribute identification</p>	<p style="text-align: center;">http://www.inspiration.com</p> <p>Visual learning tool with easy visual classification tools and features.</p>	<p>Tool for independent practice, re-teaching, guided practice at the representational level for all students. Accommodation for students who do not have motor ability to group concrete objects.</p>

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Program Summary	Skills Addressed	Key Features	Recommendations
<p>Mighty Math Calculating Crew</p> <p>Mighty Math Calculating Crew takes students on four adventures in solving problems while working through a variety of mathematical problems.</p>	<p style="text-align: center;">Software</p> <p>Multiplication, division, number line concepts, 3D shapes</p>	<p style="text-align: center;">http://www.ccvsoftware.com</p> <p>Covers major math topics covered in grades 3-6. Student created 3D objects can be printed out.</p>	<p>Independent practice, enrichment, students who have problems engaging in middle school mathematics learning activities.</p>
<p>National Library of Virtual Manipulatives</p> <p>This web resource provides extensive online manipulatives to use as enrichment and exploration activities with students.</p>	<p style="text-align: center;">Online</p> <p>Number operations, algebra, geometry, measurement, data analysis.</p>	<p style="text-align: center;">http://nlvm.usu.edu/en/nav/vlibrary.html</p> <p>Online virtual manipulatives. Text can be read out loud with a talking browser.</p>	<p>Exploration and enrichment. Good for use with a SmartBoard.</p>
<p>Patterning & Algebra K-3</p> <p>Students are led through a series of exploratory activities located in a toy store. These activities provide enrichment for PreK, address core concepts for grades K-3, and provide remediation for grade 4.</p>	<p style="text-align: center;">Software</p> <p>Number sense, numeration, measurement, geometry, probability, patterning, algebra.</p>	<p style="text-align: center;">http://www.ccvsoftware.com</p> <p>Includes a class manager to track student records and progress. Includes demonstrations of activities as well as written and oral instructions. An on-screen writing journal tool is also included.</p>	<p>Independent practice and exploration.</p>

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Program Summary	Skills Addressed	Key Features	Recommendations
<p>The Cruncher 2</p> <p>The Cruncher 2 is a highly interactive, user friendly spreadsheet program. Students organize, chart, and evaluate information.</p>	<p style="text-align: center;">Software</p> <p>Exploration of functions, relations, and formulas.</p>	<p style="text-align: center;">http://www.ccvsoftware.com</p> <p>Easy to use spreadsheet with tutorials. Will speak highlighted text.</p>	<p>Tool for independent practice, re-teaching, guided practice at representational/abstract levels for all students who need a simple but full featured spreadsheet.</p>
<p>WebMath</p> <p>WebMath is a free online resource. Students can type a math problem into WebMath and it will solve it, explaining each step along the way.</p>	<p style="text-align: center;">Online</p> <p>General math, K-8 math, algebra, plots & geometry, trigonometry, calculus</p>	<p style="text-align: center;">http://www.webmath.com/</p> <p>Over 100 instant math problem solving calculators with step by step explanations. Over 1,200 problems available as examples for problem solving.</p>	<p>Remediation, homework helper. Good for students with learning disabilities.</p>

6-8 Technology to Support Algebra Lesson Plans

Program Summary	Skills Addressed	Key Features	Recommendations
<p>Algebra Help</p> <p>Algebra help is a collection of online lessons and tools to help students understand basic algebra concepts. It is free of charge.</p>	<p>Online</p> <p>Basic algebra concepts. Fairly extensive.</p>	<p>http://www.algebrahelp.com/</p> <p>Includes extensive lessons, worksheets, and online calculators.</p>	<p>Students struggling with algebra. Exploration. Assistance with homework. Most of the lessons can be read out loud by a talking browser.</p>
<p>Algebra Solutions</p> <p>Algebra Solutions is an online resource that includes a wide variety of algebra calculators, mini lessons, and printable worksheets. Free of charge.</p>	<p>Online</p> <p>Core math concepts of pre-algebra and algebra.</p>	<p>http://www.gomath.com/algebra.html</p> <p>Includes mini lessons and printable worksheets. Online practice is available.</p>	<p>Remediation, homework helper. Most of the mini lessons can be read out loud by talking browsers for students with learning disabilities.</p>
<p>Algebra Word Problem Solver</p> <p>The Algebra Word Problem Solver takes word problems that are typed in, analyzes them, breaks them down into basic phrases, and then explains how to solve the problem. It also includes hundreds of sample problems.</p>	<p>Software</p> <p>Integers, rectangles, squares, circles, triangles, coins, age, ratios, proportions, sentence fragments.</p>	<p>http://www.cyberedinc.com/</p> <p>Analyses word problems, defines variables, breaks problem into phrases. Word problems can be typed in.</p>	<p>Exploration, remediation, homework helper. Good for struggling students and students with learning disabilities.</p>

6-8 Technology to Support Algebra Lesson Plans

Program Summary	Skills Addressed	Key Features	Recommendations
Algebrator			
	Software	http://www.softmath.com	
Algebrator is a software program that solves algebra problems that are typed in. It will list each step taken to solve a problem and will explain the reason and process needed for each step.	Equations, inequalities, simplifying expression, graphing, complex numbers	Solves algebra problems typed in by students, providing details on each step needed to arrive at the solution. Context sensitive explanations of algebraic processes.	Remediation, homework helper. Good for struggling students and students with learning disabilities.
Animated Math Dictionary			
	Online	http://www.harcourtschool.com/glossary/math2/index_temp.html	
Animated Math Dictionary is an online resource that includes text, animation, and audio to help student understand basic math terms and concepts. It is free.	Addresses all core math terms and concepts for grades K-6.	Graphics, animation, and audio.	Exploration, support for math journal writing.
Astro Algebra			
	Software	http://www.ccvsoftware.com	
Astro Algebra uses a space theme where students must solve algebraic problems to help aliens get out of trouble. "Crew members" are available to help students work through problems and solutions. Several graphing, function, and conversion tools are also available.	Functions and graphing, variables, expressions, equation, rations, fractions, percents	Includes hundreds of problems with context sensitive help. Virtual manipulatives.	Enrichment and practice for students who need assistance and support to engage in algebraic learning activities.

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Program Summary	Skills Addressed	Key Features	Recommendations
Classroom Suite : IntelliMathics			
Software	http://www.intellitools.com		
IntelliMathics is part of the Classroom Suite from IntelliTools. It includes extensive virtual manipulatives and universal access features that enable teachers to create highly accessible math learning activities. It also includes progress reporting features. Teacher created activities can be downloaded from the company web site.	Creating patterns, basic arithmetic, fractions	On-screen math manipulatives (attribute blocks, Venn Hoops, sorting bins, tangrams, base 10 blocks, fraction pieces.) and problem solving activities involving basic arithmetic and fractions. Universal access features such as text-to-speech and switch access are included.	Tool for independent practice, re-teaching, guided practice at representation level for all students. Accommodation tool for students who do not have motor ability to manipulate blocks or other concrete objects. May be used with IntelliKeys, an alternate keyboard.
Classroom Suite : IntelliTalk III			
Software	http://www.intellitools.com		
IntelliTalk III is a part of the Classroom Suite. It is a talking word processor that includes switch access and tools to support students in organizing their work.	Description of patterns, relationships, and math experiences in a journal.	Talking word processor.	Writing tool for students to journal reflections on mathematics activities. Accommodation tools for students who have difficulty reading. May be used with IntelliKeys, an alternative keyboard.
Destination MATH			
Software	http://www.riverdeep.net		
Destination MATH is a complete software based math curriculum. It includes instruction, practice, context sensitive guidance, and virtual tools.	All core math subjects K-12.	Sequenced, prescribed instruction in all core math subjects for K-12. Includes a comprehensive student assessment and progress tracking module. Available in English and Spanish.	Independent practice and remediation. Good for students who struggle with math.

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Program Summary	Skills Addressed	Key Features	Recommendations
ExploreLearning			
	Online	http://www.explorelearning.com/index.cfm?	
ExploreLearning is an extensive online collection of mathematic simulation. The simulations are visually rich and include mini lessons with problems to solve.	Numbers & operations, algebra, geometry, measurement, data analysis, probability.	Interactive math laboratory simulations with related mini lessons.	Exploration, problem solving. Good for students who need highly visual learning environments, including students with hearing limitations. Would work well on a SmartBoard type of device.
FASTT Math			
	Software	http://www.tomsnyder.com	
FASTT Math is a research based computational fluency program created for students who have difficulties mastering basic arithmetic operations at a level to support success in higher-order problem solving.	Fluency in addition, subtraction, multiplication, and division. Operation recall.	Assessment based activities that are short and skill specific. Customizable per student. Easily switch between English and Spanish. Includes universal access features.	Independent practice and remediation. Math practice and learning for students with learning disabilities.
Graph Master Deluxe			
	Software	http://www.tomsnyder.com	
Graph Master is a user-friendly graphing program that include 9 different graph types. Accompanying activities and data help teachers and students to quickly work with real world data problems.	Organizing and interpreting data; mean, median, mode; fractions, decimals, precentages.	Program includes 9 graph types, the ability to create formulas and calculate statistics, and the ability to filter and sort data for comparison activities. Includes an on-screen notebook for data collection and reflection.	Exploration, independent practice, and enrichment activities.

6-8 Technology to Support Algebra Lesson Plans

Program Summary	Skills Addressed	Key Features	Recommendations
Inspiration			
Software	http://www.inspiration.com		
Inspiration provides a graphic rich environment that enables students to organize information through symbol arrangement. Graphic diagrams can quickly convert to text outlines for further description. Text-to-speech is included.	Students use charts, webbing, and diagrams to describe relationships and patterns.	Visual learning tool and cognitive organizer.	Tool for independent practice, re-teaching, guided practice at the representational/abstract levels for all students. Accommodation for students who do not have motor ability to manipulate concrete objects or pen/pencil.
Math in the Workplace : Graphs			
Software	http://www.ccvsoftware.com		
Math in the Workplace : Graphs is a graphing program embedded in real world applications. These settings include agriculture, building, home economics, business and marketing, health occupations, and trade.	Identification of basic graph types, interpretation of two data sets, creation of horizontal and vertical bar graphs, line graphs, and pie charts.	Provides graphing activities embedded in real world applications.	To help increase instructional engagement of students who have difficulty finding real world applications for basic graphing concepts.
Math Middle School - Mind Power			
Software	http://www.learningcompany.com/		
Software based mathematics learning environment that covers basic middle school math curricula.	Fractions, decimals, percents, order of operations, geometry, ration, statistics, basic algebra.	Includes conceptual simulations as well as visual and auditory explanations to reinforce learning.	Independent practice, exploration, enrichment activities.

6-8 Technology to Support Algebra Lesson Plans

Program Summary	Skills Addressed	Key Features	Recommendations
Middle & High School Mathematics	Software	http://www.studyworksonline.com	
A program designed to help middle and high school students understand essential math concepts. Students work through lessons at their own pace while practicing problems in six core math subjects.	Basic math, pre-algebra, algebra 1, algebra 2, geometry, trigonometry	Each core math subject includes visual explanations, real world examples, multimedia presentations, an interactive math scratchpad, and step-by-step lessons.	Independent practice, enrichment.
Mighty Math Calculating Crew	Software	http://www.ccvsoftware.com	
Mighty Math Calculating Crew takes students on four adventures in solving problems while working through a variety of mathematical problems.	Multiplication, division, number line concepts, 3D shapes	Covers major math topics covered in grades 3-6. Student created 3D objects can be printed out.	Independent practice, enrichment, students who have problems engaging in middle school mathematics learning activities.
National Library of Virtual Manipulatives	Online	http://nlvm.usu.edu/en/nav/vlibrary.html	
This web resource provides extensive online manipulatives to use as enrichment and exploration activities with students.	Number operations, algebra, geometry, measurement, data analysis.	Online virtual manipulatives. Text can be read out loud with a talking browser.	Exploration and enrichment. Good for use with a SmartBoard.

6-8 Technology to Support Algebra Lesson Plans

Program Summary	Skills Addressed	Key Features	Recommendations
Secondary Math : BoxerMath			
Secondary Math is an online math curriculum that addresses core math concepts for grades 6-12. It includes assessment tools, student progress reporting, curriculum enrichment activities, and classroom integration guides.	Online	http://www.boxermath.com/courses.shtml	
	Introductory algebra, intermediate algebra, geometry, trigonometry.	Standards aligned basic math curriculum. Includes student progress management tools, enrichment activities, and a math laboratory where students can explore on their own.	Individual instruction, exploration, enrichment, remediation.
The Cruncher 2			
The Cruncher 2 is a highly interactive, user friendly spreadsheet program. Students organize, chart, and evaluate information.	Software	http://www.ccvsoftware.com	
	Exploration of functions, relations, and formulas.	Easy to use spreadsheet with tutorials. Will speak highlighted text.	Tool for independent practice, re-teaching, guided practice at representational/abstract levels for all students who need a simple but full featured spreadsheet.
WebMath			
WebMath is a free online resource. Students can type a math problem into WebMath and it will solve it, explaining each step along the way.	Online	http://www.webmath.com/	
	General math, K-8 math, algebra, plots & geometry, trigonometry, calculus	Over 100 instant math problem solving calculators with step by step explanations. Over 1,200 problems available as examples for problem solving.	Remediation, homework helper. Good for students with learning disabilities.

9-12 Technology to Support Algebra Lesson Plans

Program Summary	Skills Addressed	Key Features	Recommendations
Algebra Help	Online	http://www.algebrahelp.com/	
Algebra help is a collection of online lessons and tools to help students understand basic algebra concepts. It is free of charge.	Basic algebra concepts. Fairly extensive.	Includes extensive lessons, worksheets, and online calculators.	Students struggling with algebra. Exploration. Assistance with homework. Most of the lessons can be read out loud by a talking browser.
Algebra Solutions	Online	http://www.gomath.com/algebra.html	
Algebra Solutions is an online resource that includes a wide variety of algebra calculators, mini lessons, and printable worksheets. Free of charge.	Core math concepts of pre-algebra and algebra.	Includes mini lessons and printable worksheets. Online practice is available.	Remediation, homework helper. Most of the mini lessons can be read out loud by talking browsers for students with learning disabilities.
Algebra Word Problem Solver	Software	http://www.cyberedinc.com/	
The Algebra Word Problem Solver takes word problems that are typed in, analyzes them, breaks them down into basic phrases, and then explains how to solve the problem. It also includes hundreds of sample problems.	Integers, rectangles, squares, circles, triangles, coins, age, ratios, proportions, sentence fragments.	Analyses word problems, defines variables, breaks problem into phrases. Word problems can be typed in.	Exploration, remediation, homework helper. Good for struggling students and students with learning disabilities.

9-12 Technology to Support Algebra Lesson Plans

Program Summary	Skills Addressed	Key Features	Recommendations
<p>Algebrator</p> <p>Algebrator is a software program that solves algebra problems that are typed in. It will list each step taken to solve a problem and will explain the reason and process needed for each step.</p>	<p>Software</p> <p>Equations, inequalities, simplifying expression, graphing, complex numbers</p>	<p>http://www.softmath.com</p> <p>Solves algebra problems typed in by students, providing details on each step needed to arrive at the solution. Context sensitive explanations of algebraic processes.</p>	<p>Remediation, homework helper. Good for struggling students and students with learning disabilities.</p>
<p>Astro Algebra</p> <p>Astro Algebra uses a space theme where students must solve algebraic problems to help aliens get out of trouble. "Crew members" are available to help students work through problems and solutions. Several graphing, function, and conversion tools are also available.</p>	<p>Software</p> <p>Functions and graphing, variables, expressions, equation, rations, fractions, percents</p>	<p>http://www.ccvsoftware.com</p> <p>Includes hundreds of problems with context sensitive help. Virtual manipulatives.</p>	<p>Enrichment and practice for students who need assistance and support to engage in algebraic learning activities.</p>
<p>Classroom Suite : IntelliTalk III</p> <p>IntelliTalk III is a part of the Classroom Suite. It is a talking word processor that includes switch access and tools to support students in organizing their work.</p>	<p>Software</p> <p>Description of patterns, relationships, and math experiences in a journal.</p>	<p>http://www.intellitools.com</p> <p>Talking word processor.</p>	<p>Writing tool for students to journal reflections on mathematics activities. Accommodation tools for students who have difficulty reading. May be used with IntelliKeys, an alternative keyboard.</p>

9-12 Technology to Support Algebra Lesson Plans

Program Summary	Skills Addressed	Key Features	Recommendations
Destination MATH	Software	http://www.riverdeep.net	
Destination MATH is a complete software based math curriculum. It includes instruction, practice, context sensitive guidance, and virtual tools.	All core math subjects K-12.	Sequenced, prescribed instruction in all core math subjects for K-12. Includes a comprehensive student assessment and progress tracking module. Available in English and Spanish.	Independent practice and remediation. Good for students who struggle with math.
ExploreLearning	Online	http://www.explorelearning.com/index.cfm?	
ExploreLearning is an extensive online collection of mathematic simulation. The simulations are visually rich and include mini lessons with problems to solve.	Numbers & operations, algebra, geometry, measurement, data analysis, probability.	Interactive math laboratory simulations with related mini lessons.	Exploration, problem solving. Good for students who need highly visual learning environments, including students with hearing limitations. Would work well on a SmartBoard type of device.
FASTT Math	Software	http://www.tomsnyder.com	
FASTT Math is a research based computational fluency program created for students who have difficulties mastering basic arithmetic operations at a level to support success in higher-order problem solving.	Fluency in addition, subtraction, multiplication, and division. Operation recall.	Assessment based activities that are short and skill specific. Customizable per student. Easily switch between English and Spanish. Includes universal access features.	Independent practice and remediation. Math practice and learning for students with learning disabilities.

9-12 Technology to Support Algebra Lesson Plans

Program Summary	Skills Addressed	Key Features	Recommendations
Inspiration	Software	http://www.inspiration.com	
Inspiration provides a graphic rich environment that enables students to organize information through symbol arrangement. Graphic diagrams can quickly convert to text outlines for further description. Text-to-speech is included.	Students use charts, webbing, and diagrams to describe relationships and patterns.	Visual learning tool and cognitive organizer.	Tool for independent practice, re-teaching, guided practice at the representational/abstract levels for all students. Accommodation for students who do not have motor ability to manipulate concrete objects or pen/pencil.
Math High School - Mind Power	Software	http://www.learningcompany.com/	
Software based mathematics learning environment that covers basic high school math curricula.	Algebra 1, statistics, algebra 2, geometry, trigonometry, calculus	Includes conceptual simulations as well as visual and auditory explanations to reinforce learning. Real world problem exploration. Context specific hints. Built-in scoring reports.	Independent practice, exploration, enrichment activities.
Math in the Workplace : Graphs	Software	http://www.ccvsoftware.com	
Math in the Workplace : Graphs is a graphing program embedded in real world applications. These settings include agriculture, building, home economics, business and marketing, health occupations, and trade.	Identification of basic graph types, interpretation of two data sets, creation of horizontal and vertical bar graphs, line graphs, and pie charts.	Provides graphing activities embedded in real world applications.	To help increase instructional engagement of students who have difficulty finding real world applications for basic graphing concepts.

9-12 Technology to Support Algebra Lesson Plans

Program Summary	Skills Addressed	Key Features	Recommendations
Middle & High School Mathematics	Software	http://www.studyworksonline.com	
A program designed to help middle and high school students understand essential math concepts. Students work through lessons at their own pace while practicing problems in six core math subjects.	Basic math, pre-algebra, algebra 1, algebra 2, geometry, trigonometry	Each core math subject includes visual explanations, real world examples, multimedia presentations, an interactive math scratchpad, and step-by-step lessons.	Independent practice, enrichment.
National Library of Virtual Manipulatives	Online	http://nlvm.usu.edu/en/nav/vlibrary.html	
This web resource provides extensive online manipulatives to use as enrichment and exploration activities with students.	Number operations, algebra, geometry, measurement, data analysis.	Online virtual manipulatives. Text can be read out loud with a talking browser.	Exploration and enrichment. Good for use with a SmartBoard.
Secondary Math : BoxerMath	Online	http://www.boxermath.com/courses.shtml	
Secondary Math is an online math curriculum that addresses core math concepts for grades 6-12. It includes assessment tools, student progress reporting, curriculum enrichment activities, and classroom integration guides.	Introductory algebra, intermediate algebra, geometry, trigonometry.	Standards aligned basic math curriculum. Includes student progress management tools, enrichment activities, and a math laboratory where students can explore on their own.	Individual instruction, exploration, enrichment, remediation.

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Program Summary	Skills Addressed	Key Features	Recommendations
<p>The Cruncher 2</p> <p>The Cruncher 2 is a highly interactive, user friendly spreadsheet program. Students organize, chart, and evaluate information.</p>	<p>Software</p> <p>Exploration of functions, relations, and formulas.</p>	<p>http://www.ccvsoftware.com</p> <p>Easy to use spreadsheet with tutorials. Will speak highlighted text.</p>	<p>Tool for independent practice, re-teaching, guided practice at representational/abstract levels for all students who need a simple but full featured spreadsheet.</p>
<p>WebMath</p> <p>WebMath is a free online resource. Students can type a math problem into WebMath and it will solve it, explaining each step along the way.</p>	<p>Online</p> <p>General math, K-8 math, algebra, plots & geometry, trigonometry, calculus</p>	<p>http://www.webmath.com/</p> <p>Over 100 instant math problem solving calculators with step by step explanations. Over 1,200 problems available as examples for problem solving.</p>	<p>Remediation, homework helper. Good for students with learning disabilities.</p>