

MATHEMATICS RESOURCES DESCRIPTIONS

The Abc's Of Algebra, www.wrightgroup.com, gently guides students to the threshold of algebra in this unique and innovative series. Introducing concepts early, help students feel confident and comfortable with algebra. Students learn to use symbols to represent mathematical relationships, solve equations, and describe functional relationships. Levels 1- 3: Grades 3-5

AlgebraWorks[®], www.etacuisenaire.com, provides developmentally appropriate activities to introduce algebra topics to young learners. All the lessons use physical models, with manipulative materials being the main focus. Algebra concepts are introduced in grade 3 and revisited in subsequent grades at more in-depth levels. The hands-on activities help students actively investigate a topic as they work in pairs, small groups, or individually to record and discuss their findings. Multiple-choice assessment and item analysis tools help the teacher to effectively prepare students for standardized tests. Grades 3-6

All About Math Intervention, www.newbridgeonline.com, can integrate mathematics instruction with vocabulary development. Shapes includes circles, sides and corners, and playing with shapes student books.

SET A: Grades: 1-2

SET B: Grades: 3-5

Everyday Mathematics Games Kit, www.wrightgroup.com, reinforce facts and operation skills in whole class or game center settings. An alternative to worksheets and drills, the games teach important strands such as numeration, operation and computations, patterns, functions, algebra, and geometry. Kits include all the materials needed for setup and play, including game boards, game pieces and a K-6 Teacher's Guide to Games with instructions.

Grades: Early Childhood, 1-3, and 4-6

FractionWorks[®], www.etacuisenaire.com, is a complete curriculum for hands-on teaching of fractions, decimals, and percents. A wide variety of manipulatives help students to visualize and give concrete meaning to abstract fractions. Multiple-choice assessments and item analysis tools help the teacher to effectively prepare students for standardized tests.

Grades: 3, 4, and 5

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Groundworks® Algebraic Thinking, www.wrightgroup.com, helps students develop their reasoning skills in algebra by providing innovative problems that connect arithmetic with algebra. Concepts of algebra include: representation, proportional reasoning, balance, variable, function, and inductive reasoning. Teacher guided lessons encourage discussion and provide reproducible student pages.

Grades: 1-5

Groundworks® Reasoning About Measurement, www.wrightgroup.com, presents five big ideas of measurement units, measurement sense, conversions, scale, and formulas to build the foundation for measurement work. Discussion questions and solutions, along with reproducible student pages of varying difficulty, help teacher tailor instruction to meet individual student needs.

Grades: 1-5

Groundworks® Reasoning with Data and Probability, www.wrightgroup.com, helps students develop their ability to interpret and reason with data analysis and probability. Students are continually confronted with displays of data to interpret, organize and describe. Discussion of concepts is lead by the teacher and reproducible student pages provide enhancement practice.

Grades: 1-5

Groundworks® Reasoning with Geometry, www.wrightgroup.com, provides students with activities to investigate shapes, symmetry, congruence, angles, rotations, reflections, and more. The text provides a teaching problem for each activity set, accompanied by questions and ideas teachers can use, to lead a discussion while reviewing each concept. Reproducible student pages of varying difficulty are available.

Grades: 1-5

Groundworks® Reasoning with Numbers, www.wrightgroup.com, helps students develop their ability to reason about and with numbers. The goal of the text is to go beyond dealing with the reading and writing of numbers as well as computation and helps students develop a better understanding of number concepts and skills. Sets of problems include reasoning problems, ample practice, and teacher guided lessons. (Pencil and paper activities)

Grades: 1-5

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Hands-On Equations, www.etacuisenaire.com, brings concrete understanding to abstract linear equations. Resource offers a simplified, concrete approach through the use of game pieces to physically build a given algebraic equation; then equations are solved through manipulation of pieces.

Grades: 3-5

Hands-On/Moving-On Series, www.wrightgroup.com, hands-on for primary students builds problem solving skills and understanding of important concepts. Moving On helps intermediate students reach a deeper level of mathematical understanding. The reproducible binders focuses on the use of manipulatives for unifix cubes, pattern blocks, geoboards, tangrams, and attribute blocks and contain activities, teaching suggestions, and solutions.

Grades: K-3, 4-6

Math First, www.optionspublishing.com, uses the world of science to apply prerequisite mathematic skills in real-world context. Program includes Pre- and Post-test, modeled approaches to solve math problems, and scaffolded practice guides.

Grades: 3-5

Measureworks[®], www.etacuisenaire.com, is a unique program dedicated to developing students' measurement skills through systematic instruction and engaging measurement activities. It can be used as a stand-alone measurement curriculum or as a supplement to your existing basal program. It offers over 50 lessons at each grade level that focus on time, area/perimeter, volume/capacity, weight, temperature, and angles. Pre- and Post-tests are included. Program is rich in the language of mathematics. It also includes a toolbox filled with grade-appropriate measurements tools that give students many hands-on experiences.

Grades: 1-5

NIKTU, www.wrightgroup.com, is a game of algebraic thinking. This tool is geared toward algebra and equation solving through timed drills, variation of formats, and levels of difficulty.

Grades: 3-5

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Roads To Reasoning, www.wrightgroup.com, develops thinking skills through problem solving. Students are taught six steps to help them successfully solve word problems. Steps include: what number makes sense, what's wrong, what would you do, what questions can you answer, what's missing, what's the question if you know the answer?

Grades: 1-5

The Super Source, www.etacuisenaire.com, is organized by grade levels and focuses on one of the following seven manipulatives, base ten blocks, color tiles, Cuisenaire rods, geoboards, pattern blocks, snap cubes, and tangrams. Simple three-step lesson plans, all the information the teacher needs from how to get started to understanding where the mathematics is in each activity. Sequential instructions move the students from the concrete to the abstract by providing opportunities for experimentation. Activities can be selected by math strand or topic.

Grades: K-2, 3-4, 5-6

Tom Snyder–Graph Master, www.tomsnyder.com, is an innovative, easy-to-use data analysis tool for collecting data, creating graphs, analyzing graphs and printing and presenting graphs. Students can easily present their data results and publish them on the Internet, or incorporate them into written reports, worksheets, slide shows, or portfolio assignments. Students create and compare up to nine types of tables and graphs and make decisions about the appropriate variables, scale and graph types.

Grades: 4-6

Tom Snyder–The Graph Club, www.tomsnyder.com, is an innovative, easy-to-use tool for creating, exploring, interpreting, and printing graphs. This hands-on environment helps young students make the transition from graphing with manipulatives to graphing in the abstract. Students create and compare up to five different graph types. Computer generated software received multiple awards in 2004.

Grades: K-4

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BECON

Math Alive is a four part, fifteen-minute television series designed to introduce addition and subtraction concepts through the use of manipulatives. One segment introduces fractions to students and teachers. It can also be viewed as videotape and can be purchased from BECON.

Grades: 1-5

Measuring Up is a nine-part television series designed to introduce measurement concepts to elementary students and to model appropriate teaching techniques for teachers. It is also on tape as a 15-minute segment. Students work with an on-screen teacher to learn the customary and metric measurements. The programs are excellent visuals that prepare students for the measurement strand on the FCAT. The tapes can be purchased from BECON.

Grades: 3-5

Putting Geometry On The Map is a twelve-part television series designed to introduce geometric concepts to elementary students. Each of the fifteen-minute programs must be viewed in chronological order. The programs are excellent visuals that prepare students for the geometry strand on FCAT. The tapes can be purchased from BECON.

Grades: 3-5