

Algebra Teachers Activities Kit 150 Ready To Use Activities With Real World Applications

Strengthen family and community engagement to promote equity and increase student success! When schools, families, and communities collaborate and share responsibility for students' education, more students succeed in school. Based on 30 years of research and fieldwork, this fourth edition of a bestseller provides tools and guidelines to use to develop more effective and equitable programs of family and community engagement. Written by a team of well-known experts, this foundational text demonstrates a proven approach to implement and sustain inclusive, goal-oriented programs. Readers will find: Many examples and vignettes Rubrics and checklists for implementation of plans CD-ROM complete with slides and notes for workshop presentations

This text offers 6th - 12th grade educators guided instructional approaches for including young adult (YA) literature in science and math classes in order to promote literacy development while learning content.

The most beautiful fish in the entire ocean discovers the real value of personal beauty and friendship.

An encyclopedia designed especially to meet the needs of elementary, junior high, and senior high school students.

College Algebra

Second Edition

Brain, Mind, Experience, and School: Expanded Edition

5- to 10-Minute Activities Aligned with the Common Core Math Standards, Grades 6-12

Common Core Algebra I

Adolescent Literature as a Complement to the Content Areas

College Algebra provides a comprehensive exploration of algebraic principles and meets scope and sequence requirements for a typical introductory algebra course. The modular approach and richness of content ensure that the book meets the needs of a variety of courses. College Algebra offers a wealth of examples with detailed, conceptual explanations, building a strong foundation in the material before asking students to apply what they've learned. Coverage and Scope In determining the concepts, skills, and topics to cover, we engaged dozens of highly experienced instructors with a range of student audiences. The resulting scope and sequence proceeds logically while allowing for a significant amount of flexibility in instruction. Chapters 1 and 2 provide both a review and foundation for study of Functions that begins in Chapter 3. The authors recognize that while some institutions may find this material a prerequisite, other institutions have told us that they have a cohort that need the prerequisite skills built into the course. Chapter 1: Prerequisites

Chapter 2: Equations and Inequalities Chapters 3-6: The Algebraic Functions Chapter 3: Functions Chapter 4: Linear Functions Chapter 5: Polynomial and Rational Functions Chapter 6: Exponential and Logarithm Functions Chapters 7-9: Further Study in College Algebra Chapter 7: Systems of Equations and Inequalities Chapter 8: Analytic Geometry Chapter 9: Sequences, Probability and Counting Theory
Algebra Teacher's Activities Kit 150 Activities that Support Algebra in the Common Core Math Standards, Grades 6-12 John Wiley & Sons

Algebra Teacher's Activities Kit is a unique resource that provides 150 ready-to-use algebra activities designed to help students in grades 6-12 master pre-algebra, Algebra I, and Algebra II. The book covers the skills typically included in an algebra curriculum. Developed to motivate and challenge students, many of the activities focus on real-life applications. Each of the book's ten sections contains teaching suggestions that provide teachers with strategies for implementing activities and are accompanied by helpful answer keys. The activities supply students with quick feedback, and many of the answers are self-correcting. Each activity stands alone and can be applied in the manner that best fits your particular teaching program. Algebra Teacher's Activities Kit can be used as a supplement to your instructional program, to reinforce skills and concepts you've previously taught, for extra credit assignments, or to assist substitute teachers. For quick access and easy use, the activities are printed in a big 8 1/2" x 11" lay-flat format for photocopying and are organized into ten sections. THE LANGUAGE OF ALGEBRA (USING WHOLE NUMBERS) provides 15 activities, such as Using Square Numbers . . . Writing Phrases as Algebraic Expressions . . . Evaluating Expressions Using Exponents. INTEGERS, VARIABLES, AND EXPRESSIONS offers 15 activities, such as Using a Number Line to Graph Integers . . . Comparing Sums and Differences . . . Solving Word Problems with Integers. LINEAR EQUATIONS AND INEQUALITIES includes 24 exercises, such as Creating Word Problems . . . Solving Simple Percent Problems . . . Adding and Subtracting Matrices. GRAPHING LINEAR EQUATIONS AND INEQUALITIES is packed with 15 activities, including Graphing Points on the Coordinate Plane . . . Finding the Slope of a Line . . . Solving Systems of Equations by Graphing. BASIC OPERATIONS WITH MONOMIALS AND POLYNOMIALS offers 12 activities, such as Using the Terms of Polynomials . . . Finding Powers of Monomials . . . Finding Cubes of Binomials. FACTORS OF MONOMIALS AND POLYNOMIALS features 12 exercises, such as Finding the Missing Factor . . . Factoring Trinomials . . . Factoring the Sum and Difference of Cubes. FUNCTIONS AND RELATIONS provides 12 activities, including Identifying Functions . . . Finding the Domain of a Function . . . Evaluating the Greatest Integer Function. COMPLEX NUMBERS offers 12 activities, such as Simplifying Square Roots . . . Multiplying and Dividing Radicals . . . Using Complex Numbers to Simplify Expressions. POLYNOMIAL, EXPONENTIAL, AND LOGARITHMIC FUNCTIONS gives you 13 exercises, including Solving Quadratic Equations by Factoring . . . Finding the Zeroes of Polynomial Functions . . . Borrowing and Repaying Money (with Interest). POTPOURRI offers you 20 exercises such as Cracking a Code . . . Building an Algebra Vocabulary Chain . . . Famous Mathematicians and Algebra.

Helpful advice for teaching Common Core Math Standards to middle-school students The new Common Core State Standards for Mathematics have been formulated to provide students with instruction that will help them acquire a thorough knowledge of math at their grade level, which will in turn enable them to move on to higher mathematics with competence and confidence. **Hands-on Activities for Teaching the Common Core Math Standards** is designed to help teachers instruct their students so that they will better understand and apply the skills outlined in the Standards. This important resource also gives teachers a wealth of tools and activities that can encourage students to think critically, use mathematical reasoning, and employ various problem-solving strategies. Filled with activities that will help students gain an understanding of math concepts and skills correlated to the Common Core State Math Standards Offers guidance for helping students apply their understanding of math concepts and skills, develop proficiency in calculations, and learn to think abstractly Describes ways to get students to collaborate with other students, utilize technology, communicate ideas about math both orally and in writing, and gain an appreciation of the significance of mathematics to real life This practical and easy-to-use resource will help teachers give students the foundation they need for success in higher mathematics.

Open Middle Math

The British National Bibliography

150 Ready-to-Use Activities with Real-World Applications

Hands-On Math Projects With Real-Life Applications

Redesigned For 2016

Over 180 Quick Challenges for Developing Math and Problem-Solving Skills

An important feature of the new edition is the alignment of the activities with the Common Core Math Standards for algebra for grades six through high school. Every standard is supported by at least one activity, and many are supported by two or more. The rest of the activities address prerequisite skills related to the standards. The number and diversity of the activities in this resource will help teachers to meet the needs of the various abilities and learning styles of their students. The book is designed for easy use. Each section is divided into two parts: a summary of the activities, which includes teaching notes and answers, followed by the reproducibles of the section. The activities stand alone and can be used to supplement instruction and reinforce skills and concepts. Many are self-correcting, a feature that adds interest for students and saves time for teachers. The nine sections of the book are:
Section 1: The Language of Algebra (Using Whole Numbers) Section 2: Integers, Variables, and Expressions
Section 3: Linear Equations and Inequalities Section 4: Graphing Linear Equations and Inequalities
Section 5: Basic Operations with Monomials and Polynomials Section 6: Factors of Monomials and Polynomials
Section 7: Complex Numbers Section 8: Polynomial, Exponential, and Logarithmic Functions and Equations
Section 9: Potpourri

Bring joy and energy to math learning without adding to your already-packed schedule! Here are 150 fun and engaging math activities suitable for kindergartners to 5th graders, with math-themed ideas for all four Morning Meeting components: greeting, group activity, sharing, and morning message. Use these games, songs, chants, hands-on experiments, and more to inspire students' interest in math and help them practice skills. Each activity includes easy how-to steps; relevant NCTM content and process standards; specific math skills addressed; materials needed (all require few or no materials); tips on preparing students for success; math vocabulary to emphasize; and variations and extensions.

Imagine that you assign a math problem and your students, instead of getting discouraged after not solving it on the first attempt, start working harder--as if on a quest to figure out the answer. They talk to each other and enthusiastically share their discoveries. What could possibly make this fantastic scenario come true? The answer is: the Open Middle math problems and strategies in this book. Open Middle Math by Robert Kaplinsky gives middle and high school teachers the problems and planning guidance that will encourage students to see mathematics in an entirely different light. These challenging and rewarding Open Middle math problems will help you see your students build genuine conceptual understanding, perseverance, and creativity. Inside, you'll learn how to: Implement Open Middle math problems that are simultaneously accessible for both students who are struggling and those looking for more challenge. Select and create Open Middle math problems that will help you detect students' misconceptions and strengthen their conceptual understanding. Prepare for and facilitate powerful classroom conversations using Open Middle math problems. Access resources that will help you continue learning beyond this book. With these practical and intuitive strategies, extensive resources, and Robert's own stories about his journey learning to use Open Middle math problems successfully, you will be able to support, challenge, and motivate all your students.

The research is in: students make sense of mathematical problems best when they work in small groups, with hands-on experiences that echo real-world situations. That's why Algebra II Station Activities for Common Core Standards has proven so popular. Students learn to apply advanced algebra concepts, employ problem-solving strategies, communicate with one another, and reason through to the answers while working together. This book contains 19 sets of activities addressing topics such as Number and Quantity, Algebra, Functions, Geometry and Statistics and Probability taught in Algebra II courses. The activities consist of four different stations where students work in small groups, moving from station to station once their activities are complete. :: The research is in: students make sense of mathematical problems best when they work in small groups, with hands-on experiences that echo real-world situations. That's why Algebra II Station Activities for Common Core Standards has proven so popular. Students learn to apply advanced algebra concepts, employ problem-solving strategies, communicate with one another, and reason through to the answers while working together. This book

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180 Reproducible Activities to Motivate, Excite, and Challenge Students, Grades 6-12

Tools of the Mind

Problems That Unlock Student Thinking, 6-12

Teaching the Common Core Math Standards with Hands-On Activities, Grades K-2

150 Mini-Lessons for Correcting Common Mistakes

Algebra 1 Common Core Student Edition Grade 8/9

Math Games offers a dynamic collection of 180 reproducible activity sheets to stimulate and challenge your students in all areas of math - from whole numbers to data analysis - while emphasizing problem solving, critical thinking, and the use of technology for today's curriculum! Each of the book's activities can help you teach students in grades 6 through 12 how to think with numbers, recognize relationships, and make connections between mathematical concepts. You pick the activity appropriate for their needs . . . encourage the use of a calculator . . . or provide further challenges with activities that have multiple answers. Designed to be user friendly, all of the ready-to-use activities are organized into seven convenient sections and printed in a lay-flat format for ease of photocopying as many times as needed. This must-have resource provides the theoretical groundwork for teaching number sense. Authored by Chris Shore, this e-book empowers teachers with the pedagogy, lessons, and detailed instructions to help them implement Clothesline Math in K-12 classrooms. Detailed, useful tips for facilitating the ensuing mathematical discourse are also included. At the elementary level, the hands-on lessons cover important math topics including whole numbers, place value, fractions, order of operations, algebraic reasoning, variables, and more. Implement Clothesline Math at the secondary level and provide students with hands-on learning and activities that teach advanced math topics including geometry, algebra, statistics, trigonometry, and pre-calculus. Aligned to state and national standards, this helpful resource will get students excited about learning math as they engage in meaningful discourse.

Teachers often have too little time to prepare differentiated lessons to meet the needs of all students. Differentiating Instruction in Algebra 1 provides ready-to-use resources for Algebra 1 students. The book is divided into four units: introduction to functions and relationships; systems of linear equations;

exponent rules and exponential functions; and quadratic functions. Each unit includes big ideas, essential questions, the Common Core State Standards addressed within that section, pretests, learning targets, varied activities, and answer keys. The activities offer choices to students or three levels of practice based on student skill level. Differentiating Instruction in Algebra 1 is just the resource math teachers need to provide exciting and challenging algebra activities for all students! Grades 7-10 Hands-On Math Projects with Real-Life Applications, Second Edition offers an exciting collection of 60 hands-on projects to help students in grades 6--12 apply math concepts and skills to solving everyday, real-life problems! The book is filled with classroom-tested projects that emphasize: cooperative learning, group sharing, verbalizing concepts and ideas, efficient researching, and writing clearly in mathematics and across other subject areas. Each project achieves the goal of helping to build skills in problem solving, critical thinking, and decision making, and supports an environment in which positive group dynamics flourish. Each of the projects follows the same proven format and includes instructions for the teacher, a Student Guide, and one or more reproducible datasheets and worksheets. They all include the elements needed for a successful individual or group learning experience. The projects are easily implemented and can stand alone, and they can be used with students of various grade levels and abilities. This thoroughly revised edition of the bestseller includes some new projects, as well as fresh information about technology-based and e-learning strategies and enhancements; No Child Left Behind standards; innovative teaching suggestions with activities, exercises, and standards-based objectives; reading and literacy connections; and guidelines and objectives for group and team-building projects. Hands-On Math Projects with Real-Life Applications is printed in a lay-flat format, for easy photocopying and to help you quickly find appropriate projects to meet the diverse needs of your students, and it includes a special Skills Index that identifies the skills emphasized in each project. This book will save you time and help you instill in your students a genuine appreciation for the world of mathematics. "The projects in this book will enable teachers to broaden their instructional program and provide their students with activities that require the application of math skills to solve real-life problems. This book will help students to realize the relevance and scope of mathematics in their lives." --Melissa Taylor, middle school mathematics teacher, Point Pleasant Borough, New Jersey

**The Vygotskian Approach to Early Childhood Education
Intermediate Algebra**

Acing the New SAT Math

An Elementary Text Book for the Higher Classes of Secondary Schools and for Colleges

The Rainbow Fish

Math Games

"The new Common Core Math Standards have been formulated to provide students with instruction that will help them acquire a thorough knowledge of math at their grade level, which will enable them to move on to higher mathematics with competence and confidence. Along with learning concepts and skills, students need instruction and activities that encourage them to collaborate with other students, utilize technology, communicate ideas about math both orally and in writing, and gain an appreciation of the significance of mathematics to modern life. Hands-on Activities for Teaching the Common Core Math Standards, Grades K-2 is designed to address these needs. This resource has several important goals. The activities in this book will help students: Gain understanding of math concepts and skills, based on the new Common Core Standards, apply their understanding of concepts and skills, develop proficiency in calculations, learn to think abstractly, think critically using mathematical reasoning, employ various problem-solving strategies, gain fluency in communicating about math, develop the foundation for success in higher mathematics"--

This book contains over 100 classroom-tested projects and ideas taken directly from the pages of The Math Projects Journal, a periodical that for over six years has shared these one-of-a-kind lessons with teachers around the world. MPJs Ultimate Math Lessons offers you 80 innovative lessons and activities that can be immediately implemented in your classroom. Most of these lessons have an accompanying student handout that may be photocopied for use in your classes. To avoid reducing these unique lessons to mere worksheet exercises, the book provides 27 thoughtprovoking articles that will assist you in incorporating math projects in your daily routines and that will challenge the very way in which you think about math education. The lessons in this book have proven to help teachers increase student understanding of mathematics and, in turn, raise student achievement on standardised tests.

First released in the Spring of 1999, How People Learn has been expanded to show how the theories and insights from the original book can translate into actions and practice, now making a real connection between classroom activities and learning behavior. This edition includes far-reaching suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new research about the mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is this different from non-experts? What can teachers and schools do-with curricula, classroom settings, and teaching methods--to help children learn most

effectively? New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural processes that occur during learning to the influence of culture on what people see and absorb. How People Learn examines these findings and their implications for what we teach, how we teach it, and how we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new knowledge calls into question concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and everyday settings of community and workplace. Learning needs and opportunities for teachers. A realistic look at the role of technology in education.

This text is designed for advanced Curriculum, Methods, and Issues courses in Early Childhood Education and Child and Family Studies departments. As the only text of its kind, this book provides in-depth information about Vygotsky's theories, neo-Vygotskians' findings, and concrete explanations and strategies that instruct teachers how to influence student learning and development. Key changes to this edition include a new chapter on dynamic assessment, separate and expanded chapters on developmental accomplishments of infants and toddlers, preschool/kindergarten, and primary grades and o.

Ready-to-Use Activities for All Students (Grades 7-10)

Doing Science in Morning Meeting

150 Activities that Support Algebra in the Common Core Math Standards, Grades 6-12

Doing Math in Morning Meeting

Math Starters

Clothesline Math: The Master Number Sense Maker

Fun-filled math problems that put the emphasis on problem-solving strategies and reasoning The Algebra Teacher's Activity-a-Day offers activities for test prep, warm-ups, down time, homework, or just for fun. These unique activities are correlated with national math education standards and emphasize problem-solving strategies and logical reasoning skills. In many of the activities, students are encouraged to communicate their different approaches to other students in the class. Filled with dozens of quick and fun algebra activities that can be used inside and outside the classroom Designed to help students practice problem-solving and algebra skills The activities address a wide range of topics, skills, and ability levels, so teachers can choose whichever best suit the students' needs.

Bring Common Core Math into high school with smart, engaging activities Teaching Common Core Math Standards with Hands-On Activities, Grades 9-12 provides high school teachers with the kind of help they need to begin teaching the standards right away. This invaluable guide pairs each standard with one or more classroom-ready activities and suggestions for variations and

extensions. Covering a range of abilities and learning styles, these activities bring the Common Core Math Standards to life as students gain fluency in math communication and develop the skillset they need to tackle successively more complex math courses in the coming years. Make math anxiety a thing of the past as you show your students how they use math every day of their lives, and give them the cognitive tools to approach any math problem with competence and confidence. The Common Core Standards define the knowledge and skills students need to graduate high school fully prepared for college and careers. Meeting these standards positions American students more competitively in the global economy, and sets them on a track to achieve their dreams. This book shows you how to teach the math standards effectively, and facilitate a deeper understanding of math concepts and calculations. Help students apply their understanding of math concepts Teach essential abstract and critical thinking skills Demonstrate various problem-solving strategies Lay a foundation for success in higher mathematics The rapid adoption of the Common Core Standards across the nation has left teachers scrambling for aligned lessons and activities. If you want to bring new ideas into the classroom today, look no further. Teaching Common Core Math Standards with Hands-On Activities is the high school math teacher's solution for smart, engaging Common Core math.

Foster science learning with quick, fun, meaningful activities for kindergarten through 6th grade. Increase students' excitement about science, deepen content knowledge, and enhance science skills. The activities are easy to set up, require minimal materials, and are flexible enough to use at any time of day. Charts help you select activities by title, grade level, Morning Meeting component, science content, science standards addressed, and science discipline (physical sciences; life sciences; Earth and space sciences; and engineering, technology, and applications of science). For each of the 150 activities you will get: brief, easy-to-follow directions; open-ended questions to help students reflect on their learning; science content and standards covered; key scientific vocabulary to reinforce; ideas for variations and extensions (when applicable).

Using the latest research in cognitive science and learning theory to craft a multi-sensory learning experience, the book uses a visually rich format designed for the way your brain works, not a text-heavy approach that puts you to sleep.--Publisher's note.

Algebra

A Learner's Guide to Algebra I

Mpj's Ultimate Math Lessons

Algebra for Cryptologists

School, Family, and Community Partnerships

The Algebra Teacher's Guide to Reteaching Essential Concepts and Skills

This textbook provides an introduction to the mathematics on which modern cryptology is based. It covers not only public key cryptography, a component of modern cryptology, but also pays considerable attention to secret key cryptography, its workhorse in practice. Modern cryptology is described as the science of the integrity of information, covering all aspects like confidentiality, authenticity and non-repudiation and the protocols required for achieving these aims. In both theory and practice it requires notions and constructions from three major disciplines: computer science, electronic engineering and mathematics. Within mathematics, group theory, the theory of finite fields, and elementary number theory are some topics not normally covered in courses in algebra, such as the theory of Boolean functions and Shannon theory, are involved. Although the book is self-contained, a degree of mathematical maturity on the part of the reader is assumed, corresponding to his or her background in computer

engineering. Algebra for Cryptologists is a textbook for an introductory course in cryptography or an upper undergraduate course in algebra study in preparation for postgraduate study in cryptology.

SAT MATH TEST BOOK

Helping teachers prepare elementary students to master the common core math standards With the common core math curriculum being implemented in three states, it is imperative that students learn to master those key math standards. Teaching the Common Core Math Standards with Hands-On Activities, Grades 3-5 is the only book currently available that provides activities directly correlated to the new core curriculum for math. This text provides teachers with instructing the material and allows students to practice the concepts through use of the grade-appropriate activities included. Students learn in different ways, and Teaching the Common Core Math Standards with Hands-On Activities, Grades 3-5 acknowledges that fact through providing suggestions for variations and extensions of each concept to be used for students with different abilities and learning styles. The activities are as diverse as the students in your classroom. Inside Teaching with Common Core Math Standards With Hands-On Activities Grades 3-5 you will find clear instructions to help you cover the skills and concepts for the new math core curriculum Engaging activities that enforce each concept on your students Various suggestions for ways to instruct the concepts to reach the diverse learning styles of your students Complete worked-out calculations, mathematical reasoning, and problem-solving strategies appropriate for grades 3-5 Teaching the Common Core Math Standards with Hands-On Activities, Grades 3-5 prepares students to achieve success in the important area of mathematics. As your students gain an understanding of the common core standards, they will build confidence in their ability to grasp and manipulate mathematical concepts as they move forward. Easy to apply lessons for reteaching difficult algebra concepts Many students have trouble grasping algebra. In this book, bestselling author and Erin Muschla offer help for math teachers who must instruct their students (even those who are struggling) about the complexities of algebra. In terms, the authors outline 150 classroom-tested lessons, focused on those concepts often most difficult to understand, in terms that allow students unravel the mysteries of algebra. Also included are reproducible worksheets that will assist teachers in reviewing and reinforcing concepts and key skills. Filled with classroom-ready algebra lessons designed for students at all levels The 150 mini-lessons can be tailored to a variety of small groups, or individual students who are having trouble This practical, hands-on resource will help ensure that students really get the most out of their learning

Differentiating Instruction in Algebra 1

A Book of Abstract Algebra

Science and Math

Algebra II Station Activities for Common Core State Standards

Ideas and Strategies from Vibrant Classrooms

"These revised editions of the Mathematics Station Activities for Common Core State Standards include updated and improved sets of station-based activities to provide students with opportunities to practice and apply the mathematical skills and concepts they are learning. Each of our Station Activity books has been revised to tighten alignment and better reflect current interpretations of CCSS content and practices, based

on implementation experience. The research is in: students make sense of mathematical problems best when they work in small groups, with hands-on experiences that echo real-world situations. Using Algebra II Station Activities for Common Core State Standards students learn to apply advanced algebra concepts, employ problem-solving strategies, communicate with one another, and reason through to the answers while working together. This book contains multiple sets of activities addressing topics such as Number and Quantity, Algebra, Functions, Geometry and Statistics

A revised edition of the bestselling activities guide for math teachers Now updated with new math activities for computers and mobile devices—and now organized by the Common Core State Standards—this book includes more than 650 ready-to-use math starter activities that get kids quickly focused and working as soon as they enter the classroom. Ideally suited for any math curriculum, these high-interest problems spark involvement in the day's lesson, help students build skills, and allow teachers to handle daily management tasks without wasting valuable instructional time. A newly updated edition of a bestselling title Ideal for math teachers in grades six through twelve Includes more than 650 ready-to-use starter problems

Accessible but rigorous, this outstanding text encompasses all of the topics covered by a typical course in elementary abstract algebra. Its easy-to-read treatment offers an intuitive approach, featuring informal discussions followed by thematically arranged exercises. This second edition features additional exercises to improve student familiarity with applications. 1990 edition.

How People Learn

Becoming the Math Teacher You Wish You'd Had
Your Handbook for Action

Head First Algebra

Grades 6-12

Teaching the Common Core Math Standards with Hands-On Activities, Grades 9-12