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Algebra: Themes, Tools, Concepts -- Teachers' Edition

Weber's Rationalism and Modern Society

Provides over 300 useful lists for developing instructional materials and planning lessons for elementary and secondary students.

Punchline: Bridge to Algebra

Practical solutions for addressing teaching styles and learning styles Drawing on contemporary psychological insights, this book shows how both teaching and learning styles are rooted in the dynamics of personality. By opening the door to a whole range of teaching techniques addressing the personality needs of different students, Effective Teaching, Effective Learning will prove an invaluable aid to classroom teachers, parents, school psychologists, counselors, administrators, and all those concerned with contemporary educational issues. Filled with practical, concrete suggestions, this book: - Clarifies the strengths and weaknesses of different teaching and learning styles- Helps teachers get more satisfaction out of teaching by identifying new ways to reach students with various learning styles- Matches the different types of learners with the teaching approaches and materials most likely to work for them- Provides specific steps for handling conflict,

discipline, and academic and interpersonal issues

Graph Paper Masters

Algebra 1

Linear Algebra and Its Applications

The Math Teacher's Book of Lists

Sams Teach Yourself HTML, CSS and JavaScript All in One The all-in-one HTML, CSS and JavaScript beginner's guide: covering the three most important languages for web development. Covers everything beginners need to know about the HTML and CSS standards and today's JavaScript and Ajax libraries - all in one book, for the first time Integrated, well-organized coverage expertly shows how to use all these key technologies together Short, simple lessons teach hands-on skills readers can apply immediately By best-selling author Julie Meloni Mastering HTML, CSS, and JavaScript is vital for any beginning web developer - and the importance of these technologies is growing as web development moves away from proprietary alternatives such as Flash. Sams Teach Yourself HTML, CSS, and JavaScript All in One brings together everything beginners need to build powerful web applications with the HTML and CSS standards and the latest JavaScript and Ajax libraries. With this book, beginners can get all the modern web development knowledge you need from one expert source. Bestselling author Julie Meloni (Sams Teach Yourself PHP, MySQL and Apache All in One) teaches simply and clearly, through brief, hands-on lessons focused on knowledge you can apply immediately. Meloni covers all the building blocks of practical web design and development, integrating new techniques and features into every chapter. Each lesson builds on what's come before, showing you exactly how to use HTML, CSS, and JavaScript together to create great web sites.

Mathematics and Chess

This textbook provides an accessible account of the history of abstract algebra, tracing a range of topics in modern algebra and number theory back to their modest presence in the seventeenth and eighteenth centuries, and exploring the impact of ideas on the development of the subject. Beginning with Gauss's theory of numbers and Galois's ideas, the book progresses to Dedekind and Kronecker, Jordan and Klein, Steinitz, Hilbert, and Emmy Noether. Approaching mathematical topics from a

historical perspective, the author explores quadratic forms, quadratic reciprocity, Fermat's Last Theorem, cyclotomy, quintic equations, Galois theory, commutative rings, abstract fields, ideal theory, invariant theory, and group theory. Readers will learn what Galois accomplished, how difficult the proofs of his theorems were, and how important Camille Jordan and Felix Klein were in the eventual acceptance of Galois's approach to the solution of equations. The book also describes the relationship between Kummer's ideal numbers and Dedekind's ideals, and discusses why Dedekind felt his solution to the divisor problem was better than Kummer's. Designed for a course in the history of modern algebra, this book is aimed at undergraduate students with an introductory background in algebra but will also appeal to researchers with a general interest in the topic. With exercises at the end of each chapter and appendices providing material difficult to find elsewhere, this book is self-contained and therefore suitable for self-study.

Riverside Mathematics

Head First Algebra

The complete guide to everything educational for you and your children.

Pre-algebra with Pizzazz! Series

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A History of Abstract Algebra

With the 1989 release of Everybody Counts by the Mathematical Sciences Education Board (MSEB) of the National Research Council and the Curriculum and Evaluation Standards for School Mathematics by the National Council of Teachers of

Mathematics (NCTM), the "standards movement" in K-12 education was launched. Since that time, the MSEB and the NCTM have remained committed to deepening the public debate, discourse, and understanding of the principles and implications of standards-based reform. One of the main tenets in the NCTM Standards is commitment to providing high-quality mathematical experiences to all students. Another feature of the Standards is emphasis on development of specific mathematical topics across the grades. In particular, the Standards emphasize the importance of algebraic thinking as an essential strand in the elementary school curriculum. Issues related to school algebra are pivotal in many ways. Traditionally, algebra in high school or earlier has been considered a gatekeeper, critical to participation in postsecondary education, especially for minority students. Yet, as traditionally taught, first-year algebra courses have been characterized as an unmitigated disaster for most students. There have been many shifts in the algebra curriculum in schools within recent years. Some of these have been successful first steps in increasing enrollment in algebra and in broadening the scope of the algebra curriculum. Others have compounded existing problems. Algebra is not yet conceived of as a K-14 subject. Issues of opportunity and equity persist. Because there is no one answer to the dilemma of how to deal with algebra, making progress requires sustained dialogue, experimentation, reflection, and communication of ideas and practices at both the local and national levels. As an initial step in moving from national-level dialogue and speculations to concerted local and state level work on the role of algebra in the curriculum, the MSEB and the NCTM co-sponsored a national symposium, "The Nature and Role of Algebra in the K-14 Curriculum," on May 27 and 28, 1997, at the National Academy of Sciences in Washington, D.C.

Mathimagination Book E

It's easy to write correct Ruby code, but to gain the fluency needed to write great Ruby code, you must go beyond syntax and absorb the "Ruby way" of thinking and problem solving. In Eloquent Ruby, Russ Olsen helps you write Ruby like true Rubyists do–so you can leverage its immense, surprising power. Olsen draws on years of experience internalizing the Ruby culture and teaching Ruby to other programmers. He guides you to the "Ah Ha!" moments when it suddenly becomes clear why Ruby works the way it does, and how you can take advantage of this language's elegance and expressiveness. Eloquent Ruby starts small, answering tactical questions focused on a single statement, method, test, or bug. You'll learn how to write code that actually looks like Ruby (not Java or C#); why Ruby has so many control structures; how to use strings, expressions, and symbols; and what dynamic typing is really good for. Next, the book addresses bigger questions related to building methods and classes. You'll discover why Ruby classes contain so many tiny methods, when to use operator overloading, and when to avoid it. Olsen explains how to write Ruby code that writes its own code–and why you'll want to. He concludes with powerful project-level features and techniques ranging from gems to Domain Specific Languages. A part of the renowned Addison-Wesley Professional Ruby Series, Eloquent Ruby will help you "put on your Ruby-colored glasses" and get results that make you a true believer.

Teaching Mathematics in the Block

Glencoe Algebra 1

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.

Eloquent Ruby

Python for Software Design

Statistical Analysis with R For Dummies

Provides detailed instructional strategies, sample lesson plans, and sample assessments so that mathematics teachers can make the best use of the additional time.

iSpeak: Public Speaking for Contemporary Life

Single Best Investment

Create your own graphs with 168 blackline masters, ready to be photocopied. Square, triangular, hexagonal, and polar coordinate grids; faint-line sketching grids and dot pattern paper; standard measure paper with divisions from 1" to .0625"; and metric measure paper with divisions from 2 cm to 0.2 cm.

Beginning Algebra

Middle School Math with Pizzazz!: C. Number theory; Fractions; Operations with fractions; Fractions and decimals

This volume--the first to bring together research on sociocultural aspects of mathematics education--presents contemporary and international perspectives on social justice and equity issues that impact mathematics education. In particular, it highlights the importance of three interacting and powerful factors--gender, social, and cultural dimensions. Sociocultural Research on Mathematics Education: An International Perspective is distinguished in several ways: * It is research based. Chapters report on significant research projects; present a comprehensive and critical summary of the research findings; and offer a critical discussion of research methods and theoretical perspectives undertaken in the area. * It is future oriented, presenting recommendations for practice and policy and identifying areas for further research. * It deals with all aspects of formal and informal mathematics education and applications and all levels of formal schooling. As the context of mathematics education rapidly changes-- with an increased demand for mathematically literate citizenship; an increased awareness of issues of equity, inclusivity, and accountability; and increased efforts for globalization of curriculum development and research-- questions are being raised more than ever before about the problems of teaching and learning mathematics from a non-cognitive science perspective. This book contributes significantly to addressing such issues and answering such questions. It is especially relevant for researchers, graduate students, and policymakers in the field of mathematics education.

The Nature and Role of Algebra in the K-14 Curriculum

Middle School Math

A book of activities to help students understand concepts concerning fraction relationships and operations with fractions.

Basic Math and Pre-Algebra For Dummies

Sams Teach Yourself HTML, CSS, and JavaScript All in One

Adjunct Support Manual

A no-nonsense introduction to software design using the Python programming language. Written for people with no programming experience, this book starts with the most basic concepts and gradually adds new material. Some of the ideas students find most challenging, like recursion and object-oriented programming, are divided into a sequence of smaller steps and introduced over the course of several chapters. The focus is on the programming process, with special emphasis on debugging. The book includes a wide range of exercises, from short examples to substantial projects, so that students have ample opportunity to practise each new concept. Exercise solutions and code examples are available from thinkpython.com, along with Swampy, a suite of Python programs that is used in some of the exercises.

LEARNING WITH PYTHON.

Describes how to pick a group of stocks of highly steady, moderate growth companies that offer consistent returns at a minimal risk

Elementary and Intermediate Algebra

Puzzle activities to make algebra practice more effective.

Algebra With Pizzazz!

Catalog of Copyright Entries

Renowned professor and author Gilbert Strang demonstrates that linear algebra is a fascinating subject by showing both its beauty and value. While the mathematics is there, the effort is not all concentrated on proofs. Strang's emphasis is on understanding. He explains concepts, rather than deduces. This book is written in an informal and personal style and teaches real mathematics. The gears change in Chapter 2 as students reach the introduction of vector spaces. Throughout the book, the theory is motivated and reinforced by genuine applications, allowing pure mathematicians to teach applied mathematics.

Sociocultural Research on Mathematics Education

Algebra

99 puzzles built around the chessboard. Arithmetical and probability problems, chessboard recreations, geometrical puzzles, mathematical amusements and games, more. Solutions.

Media Review Digest

Little Folks Astray

The fun and easy way® to understand the basic concepts and problems of pre-algebra Whether you're a student preparing to take algebra or a parent who needs a handy reference to help kids study, this easy-to-understand guide has the tools you need to get in gear. From exponents, square roots, and absolute value to fractions, decimals, and percents, you'll build the skills needed to tackle more advanced topics, such as order of operations, variables, and algebraic equations. Open the book and find: How to find the greatest common factor and least common multiple Tips for adding, subtracting, dividing, and multiplying fractions How to change decimals to fractions (and vice versa) Hints for solving word problems Different ways to solve for x

Curriculum Review

iSpeak is an integrated program that helps students practice, build confidence, and achieve success in public speaking. Connect Public Speaking provides students a wealth of resources to prepare and plan speeches, while LearnSmart Ë McGraw-HillËs proven adaptive learning system Ë guides them toward mastery of key course concepts. Additionally, ConnectËs highly flexible Speech Capture tool saves instructors valuable time in managing assignments and evaluating student speeches.

The Big Book of Home Learning

This popular, pedagogically rich mainstream text for beginning algebra teaches by the use of clear models and detailed explanations,a consistent and well developed problem-solving strategy, and an emphasis on estimation skills. These elements all reflect the author's philosophy of teaching, and the concepts are continually reinforced throughout the text by the thoughtful and well-designed use of pedagogy.

Fractions with Pattern Blocks

Weber's Rationalism and Modern Society rediscovers Max Weber for the twenty-first century. Tony and Dagmar Waters' translation of Weber's works highlights his contributions to the social sciences and politics, credited with highlighting concepts such as "iron cage," "bureaucracy," "bureaucratization," "rationalization," "charisma," and the role of the "work ethic" in ordering modern labor markets. Outlining the relationship between community (Gemeinschaft), and market society (Gesellschaft), the issues of social stratification, power, politics, and modernity resonate just as loudly today as they did for Weber during the early twentieth century.

Effective Teaching, Effective Learning

Pre-algebra with Pizzazz!

Understanding the world of R programming and analysis has never been easier Most guides to R, whether books or online, focus on R functions and procedures. But now, thanks to Statistical Analysis with R For Dummies, you have access to a trusted, easy-to-follow guide that focuses on the foundational statistical concepts that R addresses—as well as step-by-step guidance that shows you exactly how to implement them using R programming. People are becoming more aware of R every day as major institutions are adopting it as a standard. Part of its appeal is that it's a free tool that's taking the place of costly statistical software packages that sometimes take an inordinate amount of time to learn. Plus, R enables a user to carry out complex statistical analyses by simply entering a few commands, making sophisticated analyses available and understandable to a wide audience. Statistical Analysis with R For Dummies enables you to perform these analyses and to fully understand their implications and results. Gets you up to speed on the #1 analytics/data science software tool Demonstrates how to easily find, download, and use cutting-edge community-reviewed methods in statistics and predictive modeling Shows you how R offers intel from leading researchers in data science, free of charge Provides information on using R Studio to work with R Get ready to use R to crunch and analyze your data—the fast and easy way!

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION