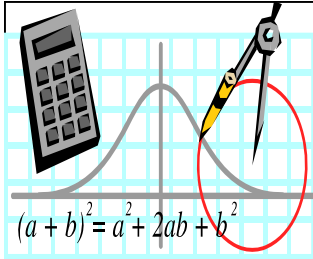


Let me see that!



NEW FOR MATH TEACHERS Algebra and Geometry in 2008-2009

New Standard 3 as Approved by the Board of Regents - March 15, 2005

Students will:

understand the concepts of and become proficient with the skills of mathematics; communicate and reason mathematically; become problem solvers by using appropriate tools and strategies; through the integrated study of number sense and operations, algebra, geometry, measurement, and statistics

Algebra

Catalog Number: DA424

Title: Decimals: the accuracy of numbers

Imprint: Video Education America, 2007.

Physical Description: DVD, 30 min.

Summary: Decimal numbers come into our lives just about every day. This program explores the world of decimal numbers where we share a day in the life of the presenter who entertains us in her own quirky way. We head to the beach and look at number lines; work out some high finance when buying an ice cream - adding, subtracting, multiplying and dividing decimal numbers; a surf clothing shop to examine percentages; finishing up with rounding off decimal numbers; and estimating.

Audience: Junior High

Catalog Number: DA432

Title: Rational numbers: we are proportional

Imprint: Video Education America, 2007.

Physical Description: DVD, 30 min.

Summary: This program provides students with a lively introduction to key concepts involved with triangles and quadrilaterals. It includes defining rational numbers as the ratio of two integers, defining rational numbers as a terminating or repeating decimal, the concept of proportional reasoning and examples of converting between decimals and rational numbers. The Mathemania style gets these foundational principles of math well and truly out of the classroom and into the imaginations of junior high school student .

Audience: Junior High

Catalog Number: DA422

Title: Algebraic notation

Imprint: Video Education America, 2007.

Physical Description: DVD ,30 min.

Summary: Another winner in the Mathemania brand, this is a clear and concise explanation of algebraic notation. In this program we start with an introduction to algebraic notation, then examine algebraic definitions and mathematical models, bringing it all together with the road test - creating a mathematical story. With a clear explanations of pronumerals and their practical uses in everyday life, this is an engaging and educational program just perfect for math students.

Audience: Junior High

Catalog Number: DA425

Title: Exponents: we are the power

Imprint: Video Education America, 2007.

Physical Description: DVD, 30 min.

Summary: This entertaining and informative program explains all about exponents, the powers to which numbers are raised. Examining positive and negative indices, the uses and benefits of using exponents to express very small and very large numbers, and how to calculate approximations this is a program that will empower all math students with clear and accurate explanations.

Audience: Junior High

Catalog Number: DA429

Title: Integers: the whole thing

Imprint: Video Education America, 2007.

Physical Description: DVD, 30 min.

Summary: Integers are all around us and used for many different purposes. This program explores the world of integers where we share a day in the life of the presenter who entertains us in her own quirky way, taking us to a snooker hall, then to a shopping mall and finally the basketball court, demonstrating how integers permeate many aspects of everyday life. Starting with the representation of integers on a number line, the program looks at the relative size of integers, various computations with integers, estimation and the order of operations, and applications of integers.

Audience: Junior High

Catalog Number: DA431

Title: Roots: the radical idea

Imprint: Video Education America, 2007.

Physical Description: DVD, 30 min.

Summary: In this entertaining program, we cover an introduction to roots and radicals, explore how roots can be simplified, carry out some operations with radicals, examine methods of approximation of roots and finish off by looking at an application involving the Pythagorean Theorem. A clear, concise and engaging explanation of roots and radicals.

Audience: Junior High

Geometry

Catalog Number: DA426

Title: Geometric Constructions

Imprint: Video Education, 2007.

Physical Description: DVD, 30 min.

Summary: The program demonstrates the following constructions in the context of a student creating a mobile to hang above a baby's cot: * Bisecting an angle * Perpendicular bisector of a line * Constructing a triangle using three known side lengths * Determine the center of gravity by constructing medians * Determine the inscribed circle of a triangle by constructing the angle bisectors * Determine the circumcircle of a triangle by constructing the perpendicular bisectors

Audience: Junior High

Catalog Number: DA427

Title: Geometric Transformations

Imprint: Video Education America, 2006.

Physical Description: DVD, 30 min.

Summary: The program uses everyday situations and examples to explain the major types of geometric transformations: translations, rotations, reflections and dilations.

Audience: Junior High

Catalog Number: DA428

Title: Triangle and Quadrilaterals

Imprint: Video Education America, 2006.

Physical Description: DVD, 30 min.

Summary: The program explains how triangles can be classified by side length and by angles, introducing the mathematical names. It then names and illustrates the different types of convex quadrilaterals.

Audience: Junior High

Catalog Number: DA430

Title: Similarity, Ration, Proportion

Imprint: Video Education America, 2006.

Physical Description: DVD, 30 min.

Summary: This program presents the ideas of similarity, ratio and proportion in a refreshing and informal style. Examples are drawn from everyday life using familiar objects with on-screen graphics producing clear well defined diagrams. Thorough explanations are provided with worked examples and student

practice is also included. Methods to obtain indirect measurements are simplified and elegantly demonstrated, including surveying methods to find the width of a river and a mirror to find the height of a tall object. Both of these methods are suitable for student activities and use readily obtainable equipment.

Audience: Junior High

Catalog Number: DA433

Title: Naming and measuring angles

Imprint: Video Education America, 2006.

Physical Description: DVD, 30 min.

Summary: This program provides students with a lively introduction to key concepts involved with angles, such as how we define and write information about an angle, mathematical notation for rays, line segments and lines, and how to use a protractor. Obtuse and acute angles are illustrated, the relationships between the angles formed by a transversal crossing parallel lines are investigated and congruent triangles are introduced, all using examples from real life, supplemented by clear graphic overlays and simple animations.

Audience: Junior High

Catalog Number: DA423

Title: Coordinate geometry

Imprint: Video Education America, 2006.

Physical Description: DVD, 30 min.

Summary: The program explores the first quadrant of the Cartesian plane in the context of a city street grid, then looks at using coordinates, graphing relationships and how slope is measured.

Audience: Junior High

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by fax (464-5101)*

NEW URL

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