$$\frac{x}{4} = \sqrt{1 - \frac{y^2}{9}}$$

1234567890

π

Applied Maths "Just in Time"

Around the world, a major concern of technology teachers is their students' level of applied maths skills. In a sense, maths skills are very much like sports; you have to practice continually in order to remain in the game. E & L-Nida's Mathematics courseware is a comprehensive package that teaches basic maths, algebra, trigonometry, calculus, computer maths, and measurements. The courseware focuses on mathematics as it applies to technology. The E & L-Nida

Mathematics courseware is presented in Computer Assisted Instruction (CAI) format, utilizing the educational advantages of graphics, animation, and automated record keeping. It is designed as individual topic-specific lessons that can be assigned as a complete programme or selectively administered "just in time", when a student requires a mathematics review prior to entering a technology topic area. The E & L-Nida's Mathematics courseware: because practice does indeed make perfect!

E & L-Nida Maths

The E & L-Nida CAI Mathematics courseware provides students with the proper stimulus to grasp the principles of mathematic operations. Colourful graphics, simple animations, and interactive media are used to reinforce mathematical concepts that are difficult to express with text alone. Practical applications throughout the courseware teach students that maths can be a useful tool, not just an academic pursuit. The primary goal of the E & L-Nida Mathematics courseware is to challenge the student without making the mastery of mathematics an unobtainable goal.
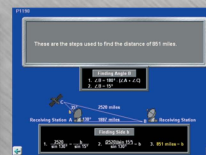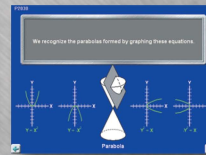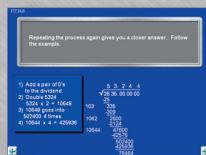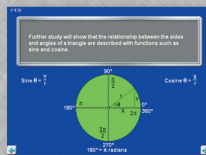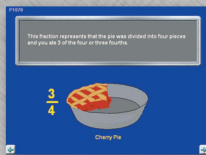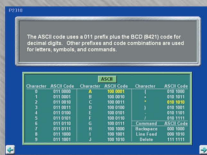
Topics

Basic Maths
- Addition, Subtraction, Multiplication, Division
- Fractions, Fraction Operations, Decimals
- Signed Numbers, Percents, Exponents, Square Roots
- Metric Notation

Algebra
- Fundamentals of Algebra, Linear Equations
- Exponents, Monomials, Polynomials
- Roots, Radicals, Graphs

Trigonometry
- Fundamentals of Trigonometry & Trig Functions
- Graphing Functions, Trigonometric Identities
- Inverse Functions, Applications of Trigonometry
- Ellipses, Hyperbolas, Parabolas & Circles
- Graphing Polar Equations

Calculus
- Fundamentals of Calculus, Limits,
- Derivatives & Applications of Derivatives
- Integration, Indefinite & Definite Integrals
- Applications of Definite Integrals

Computer Maths
- Fundamentals of Computer Maths
- Logic Expressions, Karnaugh Maps
- Number Systems, Boolean Algebra, Gate Networks

Measurements
- Metric Conversions
- Fundamentals of Measurement
- Angular, Circular, Area, & Volume Measurements
- Force, Work, & Power Measurements
- Velocity & Acceleration Measurements

Supporting Hardware

The E & L-Nida Mathematics courseware does not require supporting hardware.

E & L-NIDA

Aerial Road, Llay, WREXHAM, LL12 0TU, UK.

Tel : 01978 853920   Fax : 01978 854564

info@eandl-nida.com   www.eandl-nida.com

Cristiani SRL - Tecnologie e soluzioni per la Scuola
Viale Allea 39
27049 STRADELLA (PV) - Italy

Tel : 0385 42975, 42192   Fax : 0385 240077

cristiani@cristianisrl.it   www.cristianisrl.it

E & L-Nida

Courseware Series