

Education

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The Science of Learning™

Algebra

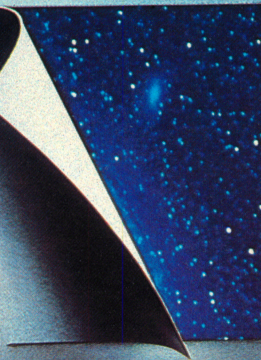
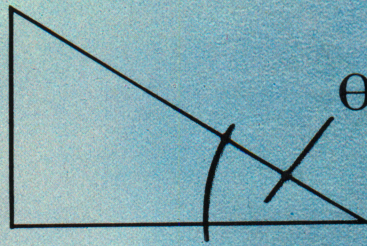
Volumes 5 and 6

APPLE®



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X



$a^2 = b^2 + c^2$

Works on
The Apple



VERSION

1.2

BATCH

118

SERIAL #

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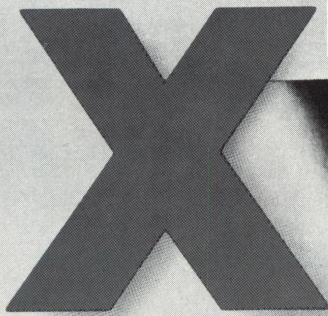


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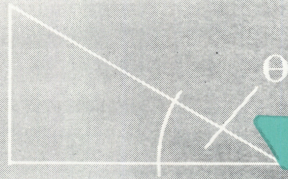
Algebra

Volumes 1-6

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X



$$a^2 = b^2 + c^2$$

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Algebra

Volumes 1 through 6

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Algebra was developed exclusively by Peachtree Software/Education Division a software development company dedicated to the production of educationally valid computer based instruction and intellectually challenging games.

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INTRODUCTION

The *Algebra* series teaches the fundamental concepts of a first-year course in algebra. Each volume in the series is a distinct and independent unit.

The *Algebra* series uses positive reinforcement in the learning process. Correct responses are acknowledged; incorrect responses produce the correct answer on screen.

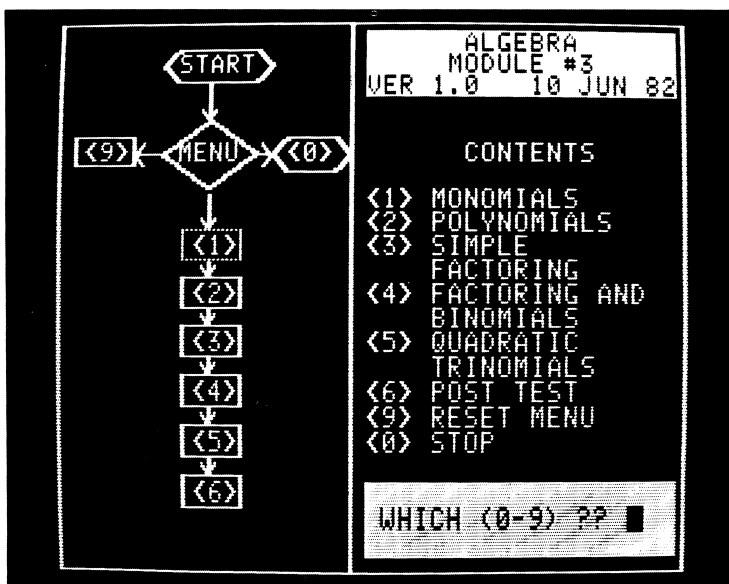
Each concept in *Algebra's* six volumes is presented in four distinct learning styles: definition/discussion; rule; example; and sample problem. You are encouraged to experiment with each style and determine the one most suited to your learning needs.

The *Algebra* system is designed so that you can enter and exit the program at any point and still maintain a report of your progress. The system is flexible enough to advance to a new concept or backtrack to review a previous one. Titles at the top of each frame let you know where you are in the system; information maps show you what you have learned, what you have yet to learn, and what you have had trouble mastering.

USING THE ALGEBRA SERIES

The content of the *Algebra* series is divided into Learning Units that give you an easy and flexible way to check your progress. You can keep track of your current level of mastery, as well as forecast the steps you must take to develop further skills.

To help you manage your own progress, the Learning Units have been mapped on graphic menus. To the left of each menu you see a flow chart which represents the choices available from the menu. The flow chart also recommends a sequence to follow. Each of the boxes in the flow chart is listed to the right of the menu. You choose the menu item with which you want to work.



In the *Unit Menu*, each of the rectangular figures in the flow chart has a color-coded outline that denotes your progress:

White — you have not yet attempted that unit or concept.

Green — you have selected a particular unit and (after the test problems or the unit test is completed) you have mastered the skill being taught.

Red — you have attempted, but not yet mastered, that particular skill.

Blue — this unit is recommended.

To begin working with *Algebra*, insert the disk into the disk drive. Turn on the monitor and the switch at the back of your computer. (These disks require DOS 3.3. If you have difficulty with the disk, consult your DOS manual). If you are using an Aple IIe or a Franklin Ace computer, make sure the **[CAPS LOCK]** is down. After a few seconds, the Algebra title page and the *Unit Menu* appear.

The Learning Units

Select any unit from the *Unit Menu* and press the number key corresponding to that unit. A few moments later, the concepts in that unit appear, in menu form, on the screen.

Select the concept with which you want to work by pressing the number key corresponding to that concept. The *Learning Mode Menu* appears on the screen. Select your learning mode:

[1] **Definition/discussion** a discussion of ideas and definitions of terms; lays the groundwork for understanding a concept before specific problems are presented.

[2] **Rule** principles for using each idea presented in a particular concept.

[3] **Example** illustrations of how to apply a rule or solve a problem.

[4] **Sample Problem** questions that test your ability to use the information presented in the other learning

styles. Each time you respond, your answer is confirmed on the screen: **RIGHT** or **CORRECT** for a correct answer; **WRONG** or **NO** (along with the correct answer) for an incorrect answer. If you are dissatisfied with your performance, select another learning style, then return to Sample Problems to retest yourself.

Three letter/number groups appear at the top left corner of each screen display. The letters are *C*, *M*, and *P*. The *C* refers to the *concepts* which are available in that unit. The *M* refers to the *mode* (1 — definition/discussion, 2 — rule, 3 — example, and 4 — sample problem). The *P* refers to the current *page* number within that concept and mode. In some cases, a mode will have only one frame. In other cases, there are multiple frames. To change modes, press [ESC] [M] [n] (where *n* = number of the mode you want to enter).

To return to the unit's menu, press [ESC] [M] [0]. When the menu appears, you can continue with the current learning mode by selecting that mode again and repeating pages. You can also select a new learning mode, or select a new concept.

To leave a learning unit, press [ESC], wait for a beep and then press [ESC] again. This will return you to the *Unit Menu*. Then press [0]. Do not exit the program by turning off your computer. Your progress will not be recorded properly.

Volume 1

Major Objectives

You will be able to do the following after completing this volume:

- Evaluate the truth value of numeric equations and inequalities without variables.
- Determine the value and absolute value of integers shown on a number line.
- Determine the form of relationship (if any) between two given sets of integers.
- Find the value of single-variable expressions, using the rules of precedence, given the value of the variable.
- Find the value of multi-variable expressions, using the rules of precedence, given the values of the variables.

Learning Units

UNIT 1: Definitions

Concept 1: Numerals

Concept 2: Operators

Addition

Subtraction

Multiplication

Division

Concept 3: Grouping Symbols

Concept 4: Equality

UNIT 2: Number Line Operations

Concept 1: The Number Line

Concept 2: Real Numbers

Positive

Negative

Real Numbers

Absolute Values

Concept 3: Using Negative Numbers

Addition

Subtraction

Multiplication

Division

UNIT 3: Sets

Concept 1: Definition — element/non-element

Concept 2: Number Systems

Natural Numbers

Whole Numbers

Integers

Real Numbers

Concept 3: Size

Null Set

Finite Set

Infinite Set

Concept 4: Properties

Equal Sets

Equivalent Sets

Subsets

Union of Sets

Intersection of Sets

UNIT 4: Evaluating Expressions

Concept 1: Variables/Constants

Concept 2: Factors/Coefficients

Concept 3: Exponents

UNIT 5: Rules for Reducing Equations

Concept 1: Combining Like Terms

Concept 2: Simple Equations

Concept 3: Order of Operations

Volume 2

Major Objectives

You will be able to do the following after completing this volume:

- Find the value of the additive inverse of a multi-number expression without variables, following the rules of precedence.
- Simplify complex two-variable expressions (using the distributive property of multiplication) using rules of precedence.
- Solve single-variable expressions using transformation by multiplication or division, as appropriate.
- Determine whether an inequality with one variable and an absolute value is a conjunction or disjunction and define its solution set.

Learning Units

UNIT 1: Addition of Real Numbers

Concept 1: Axioms of Closure and Equality
Reflexive Property of Equality

- Symmetric Property of Equality
- Transitive Property of Equality
- Axiom of Closure for Addition
- Substitution Principle
- Concept 2: Commutative and Associate Axioms
 - Commutative Axiom of Addition
 - Associative Axiom of Addition
- Concept 3: Displacement and the Identity Element
 - Displacement
 - Identity Element for Addition
 - Additive Axiom of Zero
- Concept 4: The Opposite of a Real Number
 - Additive Inverse
 - Axiom of Opposites
 - Property of the Opposite of a Sum

UNIT 2: Multiplication of Real Numbers

- Concept 1: Axioms of Closure and Equality
 - Reflective Property of Equality
 - Symmetric Property of Equality
 - Transitive Property of Equality
 - Axiom of Closure for Multiplication
 - Substitution Principle
- Concept 2: Commutative and Associate Axioms
 - Commutative Axiom of Multiplication
 - Associative Axiom of Multiplication
- Concept 3: Distributive Property of Multiplication
 - Equivalent Expressions
- Concept 4: Rules for Multiplication
 - Identity Element of Multiplication
 - Multiplicative Axiom of One
 - Multiplicative Property of Zero
 - Multiplicative Property of -1
 - Property of Opposites in Products
- Concept 5: The Reciprocal of a Real Number
 - Multiplicative Inverse
 - Axiom of Reciprocals
 - Property of the Reciprocal of a Product

UNIT 3: Solving Equations and Problems

Concept 1: Equations

Root of an Equation

Solution Set

Solving an Equation

Domain

Conditional Equation

Identity

Concept 2: Transformation by Addition and Subtraction

Addition of Properties by Equality

Subtraction of Properties by Equality

Transformation by Substitution

Transformation by Addition

Transformation by Subtraction

Concept 3: Transformation by Multiplication and Division

Multiplicative Property of Equality

Division Property of Equality

Transformation by Multiplication

Transformation by Division

Concept 4: Using Several Transformations

Inverse Operations

Like Terms

Concept 5: Functions

Domain and Range

UNIT 4: Solving Inequalities

Concept 1: Axioms of Order

Transitive Axiom of Order

Additive Property of Order

Multiplicative Property of Order

Axiom of Comparison

Concept 2: Transforming Inequalities

Equivalent Inequalities

Conditional Inequalities

Concept 3: Combining Inequalities

Conjunctive

Disjunctive

Volume 3

Major Objectives

You will be able to do the following after completing this volume:

- Simplify complex expressions with two variables and multiple levels of exponents using rules of precedence.
- Multiply two first-order, single-variable polynomials and express the result in simplified form.
- Given a first-order polynomial in four variables, reducible to two polynomials in two variables with integer coefficients, and given one such two-variable factor, determine the second factor.
- Determine the factors of a single-variable, second-order trinomial, when each factor has a coefficient of 1 for the variable, and when each factor has any integer coefficient for the variable.

Learning Units

UNIT 1: Monomials

Concept 1: Addition and Subtraction

Definition — degree of a term

Concept 2: Multiplication

Multiplying Powers of the Same Base

Power of a Product

Power of a Power

Multiplying a Monomial by a Monomial

Concept 3: Division
Dividing Powers of the Same Base
Dividing a Monomial by a Monomial
Zero and Negative Exponents

UNIT 2: Polynomials

Concept 1: Addition and Subtraction
Definition — degree of a polynomial;
ascending, descending terms
Concept 2: Multiplication
Polynomial by a Monomial
Two Polynomials
Powers of Polynomials — expansion
Concept 3: Division of Polynomials
Polynomials by a Monomial
Polynomials by a Polynomial

UNIT 3: Simple Factoring

Concept 1: Prime Factors
Prime Numbers
Greatest Common Factor
Concept 2: Monomial Factor
Greatest Monomial Factor
Squaring a Monomial
Concept 3: Difference of Two Squares
Multiplying Sum and Difference of
Two Numbers
Factoring the Difference of Two Squares

UNIT 4: Factoring and Binomials

Concept 1: Trinomial Square
Squaring a Binomial
Factoring a Trinomial Square

- Concept 2: Multiplying Binomials
- Concept 3: Product of Binomial Sums or Differences
- Concept 4: Product of Binomial Sum and Differences

UNIT 5: Quadratic Trinomials

- Concept 1: Factoring Quadratic Trinomials
- Concept 2: Combining Factoring
- Concept 3: Zero Products
- Concept 4: Solving Polynomial Equations

Volume 4

Major Objectives

You will be able to do the following after completing this volume:

- Given plotted points and the domain element of ordered pairs representing two of the points, determine the range element of each pair, and determine if the relation is a function.
- Plot the graph of an equation given in slope-intercept form.
- Determine the value of one variable given the value of and relationship to two variables with which it varies jointly or in combination.
- Solve a system of simultaneous linear equations in two variables.
- Graph the solution set for an inequality involving the absolute value of a single variable.

Learning Units

UNIT 1: Introduction to Graphing

- Concept 1: Ordered Pairs
Tables, Graphs
- Concept 2: Coordinates in a Plane
Axes, Quadrants, Plotting
- Concept 3: Relations and Functions
- Concept 4: Open Sentences in Two Variables

UNIT 2: Linear Equations

- Concept 1: Graphing Linear Equations in Two Variables
Equation of a Line
- Concept 2: Slope of a Line
Positive, Negative, Zero, No Slope
- Concept 3: Slope Intercept Form of
A Linear Equation
- Concept 4: Finding the Equation of a Line

UNIT 3: Variation

- Concept 1: Ratio and Proportion
- Concept 2: Direct Variation
- Concept 3: Inverse Variation
- Concept 4: Joint and Combined Variations

UNIT 4: Solving Systems of Linear Equations

- Concept 1: Graphic Method
- Concept 2: Addition and Subtraction
Using Multiplication
- Concept 3: Substitution Method

UNIT 5: Inequalities

**Concept 1: Graph of an Inequality in
Two Variables**

Concept 2: Graphs of Systems of Linear Equations

**Concept 3: Graphing Open Sentences Involving
Absolute Values.**

Volume 5

Major Objectives

You will be able to do the following after completing this volume:

- Determine whether a given integer has a rational or irrational square root.
- Solve a single-variable radical equation.
- Given the dimensions of two sides of a right triangle, specify the dimension of the third side (using the Pythagorean Theorem) in radical form, or in decimal form.

Learning Units

UNIT 1: Irrational Numbers

Concept 1: Rational and Irrational Numbers

Concept 2: Roots of Numbers

Concept 3: Properties of Irrational Numbers

UNIT 2: Radical Expressions

Concept 1: Simplifying Radicals

Concept 2: Addition and Subtraction

Concept 3: Conjugates

Concept 4: Radical Equations

UNIT 3: Finding Square Roots

Concept 1: Approximate Square Roots

Concept 2: Computing Square Roots

Concept 3: Using Tables

Concept 4: The Pythagorean Theorem

Volume 6

Major Objectives

You will be able to do the following after completing this volume:

- Solve a quadratic equation (using the quadratic formula).
- Solve a quadratic inequality using either factoring or graphing.

Learning Units

UNIT 1: Quadratic Equations

Concept 1: Square Root Property

Concept 2: Sum and Product of Roots

Concept 3: Completing a Trinomial Square
Concept 4: The Quadratic Formula

UNIT 2: Quadratic Inequalities

Concept 1: Roots of a Quadratic Equation
Concept 2: Solving Quadratic Inequalities
Concept 3: Using Graphs to Solve Quadratic Inequalities

Algebra Comprehensive Posttest

This posttest examines your understanding of the concepts taught in the *Algebra* series. You can select the volumes in the series you want to include in the posttest, how many test items to include for each unit, and what the passing percentage should be.

If your computer is equipped with a printer, you can produce a paper copy of your performance results. With or without a printer, the reporting mechanism for this test identifies specific instruction areas in which your performance meets the passing percentage and those in which additional study is required.

TROUBLESHOOTING

Although Peachtree Software products are subject to rigorous testing, errors remain a possibility. Before you attribute a problem to defective software, take a few moments to consider the following:

UPPER CASE CHARACTERS? This program will only recognize commands in upper case characters. If you have modified your Apple II or Apple II+ to provide both upper and lower case capability you must disconnect the modification so your keyboard is locked in the upper case position or make sure the shift key is pressed down before typing commands.

CAPS LOCK DOWN? Both the Apple IIe and Franklin Ace 1000 require that the CAPS LOCK be in a down position before this program will recognize commands.

CONTROLLER CARD INSTALLED? A DOS 3.3 Controller Card must be installed in slot #6 of your computer for the program to work properly.

LOADING ERRORS? If the computer does not load the program properly, open the disk drive latch, slide the disk out and then back into the disk drive as far as it will go, then reclose the latch. If the problem remains, insert a disk that you know works properly. If this disk does not work, you may have a problem with your disk drive. Should the problem be confined solely to the Peachtree disk, return the disk to us for replacement or correction.

I/O ERRORS? This error message flashed on your screen usually indicates a defective disk. Repeat the procedures listed under LOADING ERROR. If the message remains, return the disk to us for replacement or correction.

PROGRAM ERROR or DEFECTIVE DISK? Return the disk to us for correction or replacement.

DO NOT WRITE PROTECT THE DISK. File writing occurs during the use of the program; do not place a Write Protect tab on the program disk.

Please call us if difficulties using this program persist. You can reach our Customer Service representative at (818) 706-0661.


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Customer Assurance Program



Please Note

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- Customer Registration
- Customer Support
- Product Upgrade Plan
- Product Replacement Plan
- Limited Warranty
- License Agreement
- Replacement Order Card
- Customer Registration Card

Customer Registration

To take advantage of MSA's Peachtree Software customer services, you must be a registered Peachtree Software product user. Please take a moment now to fill out and return the Customer Registration Card that's attached to this booklet. Returning the registration card gives you access to:

- Peachtree Software Customer Support
- Peachtree Software Extended Support
- The Peachtree Software Upgrade Plan
- The Peachtree Software Product Replacement Plan

The registration card provides proof of delivery so you don't have to send receipts or other records when you apply for warranty service.

Customer Support

Peachtree Software Customer Support is **free** of charge for the first 90 days following delivery of the product. This program is designed to give you complete assistance during that crucial start-up period. Should you encounter any difficulty in using the program, or if the program does not operate as described, we suggest that you do the

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following in order:

1. Consult the user's manual and other instructional materials that accompany the product. They contain answers to most users' questions. Also check to see if the program supports the particular operating system, interfaces and peripherals that you have.

2. Consult your dealer. Most dealers are knowledgeable about Peachtree Software products and are your convenient local source of information.

3. Finally, if your question cannot be answered by reading the manual or consulting your dealer, call:
For accounting and office productivity at (404) 239-3165 between 8:30 a.m. and 7:00 p.m. (Eastern Standard Time) Monday thru Friday.

For educational products at (818) 706-0661 between 8:00 a.m. and 5:00 p.m. (Pacific Time) Monday thru Friday.

Before calling, please gather all information relating to the problem.

This will make it simpler for our service representative to understand the problem and offer advice and other assistance through Peachtree Software's Extended Support Plan.

MSA offers you continuing support for your Peachtree Software product in the form of telephone advice and other assistance. Peachtree Software Extended Support not only protects you against software problems but allows you to access a range of special Peachtree services, including package amendments, updates and a user news-

letter. Peachtree Software Extended Support is available at an additional charge and information about the extended support service will be forwarded to you upon receipt of the completed Customer Registration Card.

Product Upgrade Plan

New versions of Peachtree Software products, incorporating new features and capabilities, are regularly introduced as part of our company's ongoing development program. The Peachtree Software Product Upgrade Plan enables existing customers to take advantage of these enhancements. Under the Product Upgrade Plan:

- You will be notified by mail whenever a new version is introduced.
- You have the option to obtain new versions of your product when they are introduced at a special upgrade price.

Important: To qualify for the Product Upgrade Plan, you must complete and return the Customer Registration Card.

Product Replacement Plan

Peachtree Software products have a limited warranty for 90 days as specified in the Limited Warranty section below. In addition, if your disk(s) become damaged after the warranty expires, Peachtree will

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1. With respect to defective media during the warranty period:
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 - b. In the alternative, if Peachtree is unable to deliver replacement media free of defects in materials and workmanship, you may terminate your License Agreement by returning the Program and your money will be refunded.
2. In all situations involving performance or nonperformance of the Program during the warranty period, your exclusive remedies are
 - (a) Peachtree will correct or bypass program defects, or
 - (b) if, after repeated efforts, Peachtree is unable to make the program operate as warranted, you will be entitled to a refund of the money paid or to recover actual damages to the limits set forth below.

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Peachtree warrants the media on which the Program is furnished will be free from defects in material or workmanship under normal use. If you believe the media on which the Program is furnished is defective,

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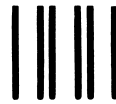
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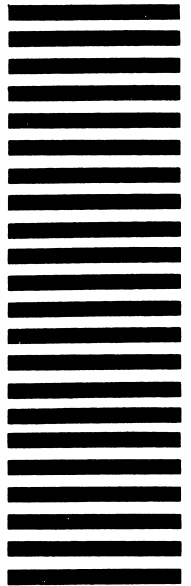
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The Science of Learning **Algebra** Volumes 5 and 6

Algebra teaches the fundamental concepts of first-year algebra. Its instruction is interactive; the programs work with you at a pace and sequence that match your needs.

Volume 6, the conclusion of the Algebra series, contains a comprehensive posttest which pinpoints concepts from each of the preceding volumes. Volume 6 also allows you to print your test scores using a printer with Apple interface.

Volumes 5 and 6 contain five learning units, each one focused on a specific content area:

- Irrational numbers
- Radical expressions
- Finding square roots
- Quadratic equations
- Quadratic inequalities

Each concept in Algebra is presented in four distinct learning styles. You may read a discussion which defines a concept; study the rules which govern an operation; watch an equation being solved step by step; or work sample problems. By selecting the style you prefer, you manage your own learning.

The Algebra program supplements

Apple II, Applesoft, 48K,
DOS 3.3
Apple II+, 48K, DOS 3.3
Apple IIe, Disk Drive
Franklin Ace 1000, 1000 Plus,
Disk Drive

schoolwork and helps gifted students advance. It can assist teachers in the classroom, or help adults sharpen their analytical skills.

Features that make Algebra a useful and flexible teaching tool:

- High resolution color graphics and upper/lower case letters for maximum clarity.
- Information maps trace and evaluate progress.
- The system can advance to a new concept or backtrack to review a previous one.
- Titles in each frame let you know where you are in the system.
- Flow-charts show specific areas mastered and those in which more work is needed.
- A clear, readable manual describes Algebra's operation, explains the thinking behind its instructional design, and offers a guide to using the system more effectively.
- The Science of Learning products are supported after sale through EduWare's Limited Warranty, rapid service, and low cost updates and replacements.



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