

User Guide
Multimedia Applications
Virtual Activities
(Windows and Macintosh)

Glencoe
Middle School
MATHEMATICS

Level 1

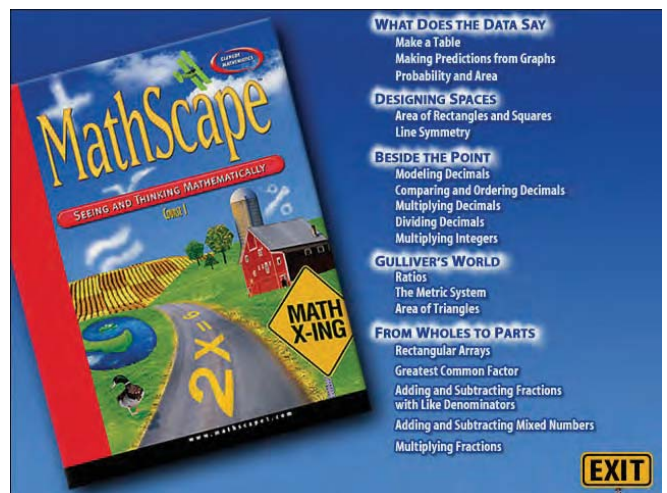
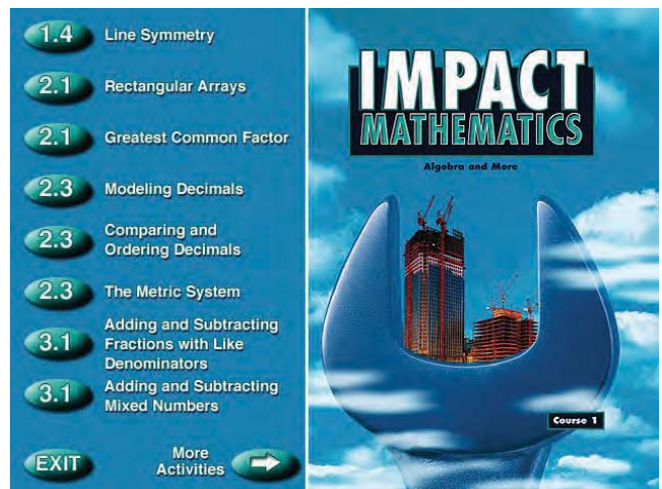
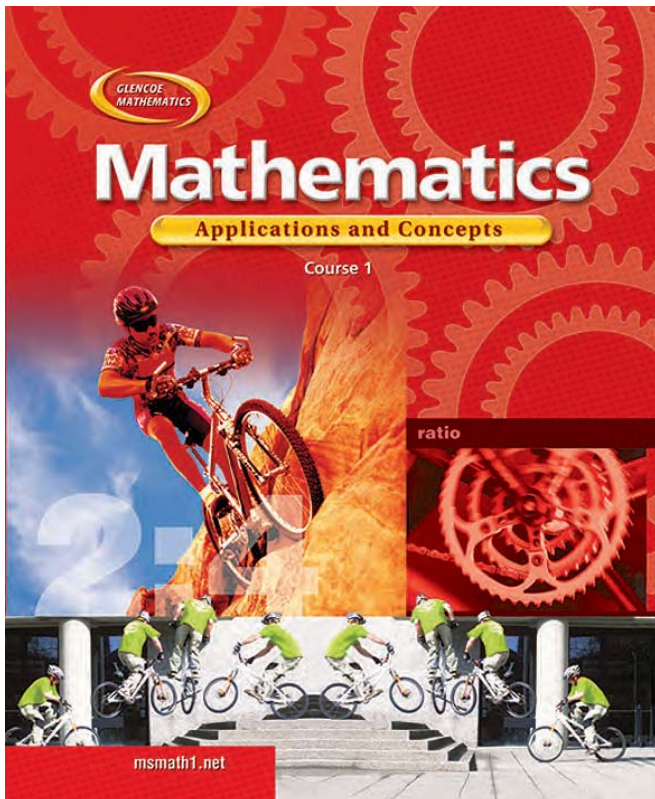
GLENCOE

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OVERVIEW

Virtual Activities for Middle School Mathematics, Level 1

Engaging computer simulations, plus videos of real people using mathematics, bring the world into your classroom. These highly interactive multimedia materials are carefully correlated to Glencoe *Mathematics: Applications and Concepts, Course 1*; *Impact Mathematics, Course 1*; and *Math Scape, Grade 6*.

Choose some or all of the applications to extend and reinforce concepts.

Involve your students in applying mathematics and solving problems in realistic situations.

Data collection and analysis form the basis of many explorations. Students are actively engaged in the interactions. They make decisions, operate simulated devices, collect data, record data, and interpret results.

Complete onscreen instructions guide students through the interactions.

Area of Triangles

Instructions

Activity:

Find the base and height of the triangle by counting the unit blocks. Then, find the area. Enter your answers for the base, the height, and the area of the triangle. Check your work.

Click the New Problem button for another problem.

Go to Practice

Return

$A = \frac{1}{2} B H$

$\frac{1}{2}$ base height

Comparing and Ordering Decimals

Which number is greater?

Instructions

Activity 2:

1. You can compare numbers with decimals using a place-values chart.
2. Start at the left and compare the digits in each place-value position.
3. Then drag the symbol that describes their

Go to Practice

Return

hundred-thousands
ten-thousands
thousands
hundreds
tens
ones
tenths
hundredths
thousandths
ten-thousandths
hundred-thousandths

2 4 9
2 5 3

24.9 25.3

NEW Problem

SECTION 1

Installing *Virtual Activities for Middle School Mathematics, Level 1*

System Requirements

The following are the minimum system requirements and step-by-step instructions for loading the *Virtual Activities for Middle School Mathematics, Level 1* onto your computer. Check the reference manual for your computer (or look on the hard drive) for information verifying that your system meets these minimum requirements. Otherwise, your CDs may not be fully operational. If you have any difficulty, ask a computer education teacher or technology coordinator for support.

Windows® Operating System

Minimum System Requirements

- A Pentium processor-based PC or compatible computer
- 32 MB RAM, 64 MB recommended
- Windows® 98/NT/Me/2000/XP
- A Sound Blaster or compatible sound card and speakers recommended
- 2X CD-ROM drive or higher; 4X CD-ROM drive recommended
- 256 Color VGA Monitor
- Microsoft-compatible mouse
- Keyboard
- No hard disk space needed, except for installation of QuickTime™

Installation Instructions

1. Insert the *Virtual Activities for Middle School Mathematics, Level 1* disk into the CD-ROM drive.
2. The program should start automatically. If it does not, click **Start** on the taskbar and then choose **Run**.
3. In the Command Line text box, type the drive letter for your CD-ROM drive, a colon, and then the word **MAC1**.
(Example: **d:MAC1**) Press Enter or click **OK**.

Note: The CD-ROM disk must remain in the drive while the program is in use.

SECTION 1 (continued)

Installing *Virtual Activities for Middle School Mathematics, Level 1*

Using the *Virtual Activities for Middle School Mathematics, Level 2* with Windows

1. Insert the *Virtual Activities for Middle School Mathematics, Level 1 CD-ROM* in the CD-ROM drive. From the Welcome screen, choose your book and click the **GO** button to start the program. The program will display the Table of Contents page ready for you to select the chapter you want to work on.

If the program does not start automatically:

1. Click the **Start** button and choose **Run**.
2. Type the drive name of your CD-ROM drive, a colon, a backslash, and the words **MAC1.exe** (example: **d:MAC1.exe**).
3. Click **OK**.
4. From the Welcome screen, choose your book and click the **GO** button to start the program. The program will display the Table of Contents page ready for you to select the chapter you want to work on.

SECTION 1 (continued)

Installing *Virtual Activities for Middle School Mathematics, Level 1*

Macintosh Operating System

Minimum System Requirements

- A PowerPC processor-based Macintosh Computer
- 32 MB RAM, 64 MB recommended
- 5 MB available space on startup hard disk
- 2X CD-ROM drive or higher; 4X CD-ROM drive recommended
- 256 color monitor
- Mouse
- Keyboard
- QuickTime™ for Macintosh version 2.1
- Macintosh System 8.6 or higher

Installation Instructions

1. Insert the *Virtual Activities for Middle School Mathematics, Level 1* disk into the CD-ROM drive. The CD-ROM will open a window on the desktop.
2. To use *Virtual Activities for Middle School Mathematics, Level 1* double-click the **Start MAC1** icon.

Note: The CD-ROM disk must remain in the drive while the program is in use.

Using the *Virtual Activities for Middle School Mathematics, Level 1* on a Macintosh

1. Insert the *Virtual Activities for Middle School Mathematics, Level 1* into the CD-ROM drive. From the Welcome screen, choose your book and click the **GO** button to start the program. The program will display the Table of Contents page ready for you to select the chapter you want to work on.

If the program does not start automatically:

1. Double-click the **MAC1** icon on your desktop.
2. Double-click the **MAC1** icon to start the program. From the Welcome screen, choose your book and click the **GO** button to start the program. The program will display the Table of Contents page ready for you to select the chapter you want to work on.

SECTION 2

Navigating *Virtual Activities for Middle School Mathematics, Level 1*

Main Menu

The main menu appears after the title screen. The titles are shown. Choose one by rolling over the titles and clicking on the one you choose.

Click a chapter number to go to the chapter activity.

Click to exit the program.

Mathematics Application and Concepts Course 1

- 1a Rectangular Arrays
- 1b Area of Rectangles and Squares
- 2a Make a Table
- 2b Making Predictions From Graphs
- 3a Modeling Decimals
- 3b Comparing and Ordering Decimals
- 4a Multiplying Decimals
- 4b Dividing Decimals
- 5 Greatest Common Factor
- 6a Adding and Subtracting Fractions With Like Denominators
- 6b Adding and Subtracting Mixed Numbers
- 7 Multiplying Fractions

EXIT

Chapters 8 – 14

Interactive Lessons

Click to scroll down the instructions.

Click to go to the Practice Activity.

Click to return to the Main Menu.

Multiplying Fractions

Instructions

Activity 1:

Make a model that shows multiplication of fractions and mixed numbers as repeated addition.

Use the space bar to separate the whole number and the fraction of mixed

Go to Practice

Return

number of sets

Make a model to show the product of: $4 \times \frac{1}{3}$
(Enter answers in simplest form)