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National Science Foundation

Britannica
Mathematics
in
Context

Key to Success:

A Curriculum for Summer School, Extended Time, and Exploration Programs

Created for Students in Grades 6, 7, and 8!

- Research-based lessons
- Increases conceptual understanding
- Engaging and motivating topics
- Multiple strategies to suit any learning style
- Work-text format means they can write in the books!

Easy for Teachers

- Clear and concise plans for teachers will reduce planning time
- Supports and extends teachers' math content knowledge
- All materials are provided within each lesson; no need to make copies
- Digital formats are online for immediate use on interactive whiteboards

Classroom Supplies Kit

SUPPLIES FOR TEACHERS:

- Pre- and post-tests, benchmark tests, and storage container

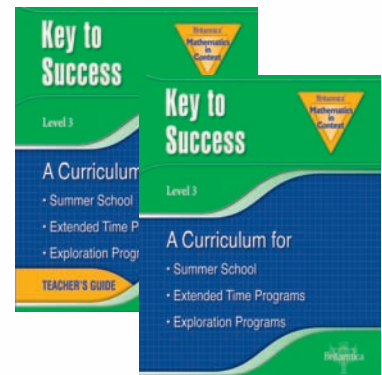
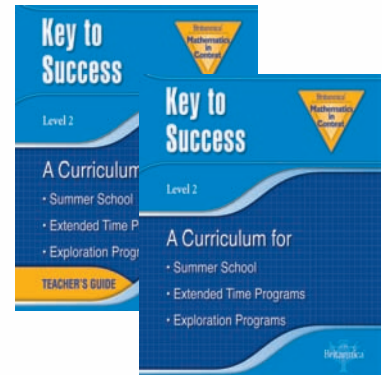
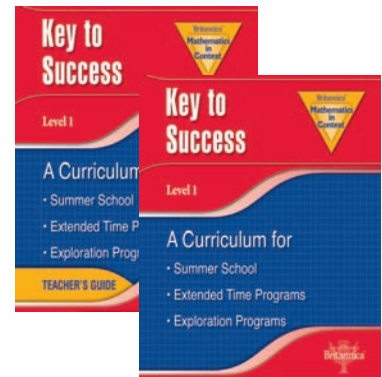
SUPPLIES FOR STUDENTS:

- Pencils, grid paper, scissors, compasses, rulers, and more!
- Enough materials for 32 students!

We've done all the work for you!

- 20 separate lessons at each level
- 40 hours of instruction
- 40 extra practice worksheets

Call for special kit pricing!





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Britannica Mathematics in Context

MATHEMATICAL STRANDS:

Algebra • Data Analysis and Probability • Geometry and Measurement • Number

**A comprehensive curriculum for abbreviated programs,
Key to Success is consistent with the NCTM Principles and Standards.**

Assessments included:

Pre-test and post-test provide records for student accountability

- Easily scored multiple choice format
- Problems sequenced to align to lessons

Formative assessment items are clearly designated

- Saves time during class; no need for formal assessments
- Teacher can help students immediately

Complete and easy to use.

The MATHEMATICS in each level was chosen to reinforce and re-teach skills in each of the mathematical strands

- No need to supplement
- Variety supports student engagement

Two “extra” pages in each day’s lesson

- Perforated for easy removal
- Use to reinforce skills in class or for homework!



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Formulas

In some cabs, the fare for the ride is shown on a meter. At the Rainbow Cab Company, the fare increases during the ride depending on the distance traveled. You pay a base amount no matter how far you go, as well as a price for each mile you ride. The Rainbow Cab Company changes these rates.

The base price is \$2.00.
The price per mile is \$1.50.

\$ 09.50

5. What is the price for each of these rides?
a. stadium to the railroad station: 4 miles
b. suburb to the center of the city: 7 miles
c. convention center to the airport: 10 miles

The meter has a built-in calculator to find the total price. The calculation can be described by an arrow string.

6. Which of these strings shows the correct calculation for the price of a ride that is 4 miles long?

number of miles \times \$1.50 $+$ \$2.00 = number of miles \times \$2.00 $+$ \$1.50

14 Expressions and Formulas

Formulas

Supermarket

Tomatoes cost \$1.50 a pound. Carl buys 2 pounds (lb) of tomatoes.

1. a. Find the total price of Carl's tomatoes.
b. Write an arrow string that shows how you found the price.

At Huggies R Us, you can weigh fruits and vegetables yourself and find out how much your purchases cost. You select the button on the scale that corresponds to the fruit or vegetable you are weighing.

The scale's built-in calculator computes the purchase price and prints out a small price tag. The price tag lists the fruit or vegetable, the price per pound, the weight, and the total price.

The scale, like an arrow string, takes the weight as an input and gives the price as an output.

weight \rightarrow price

12 Expressions and Formulas