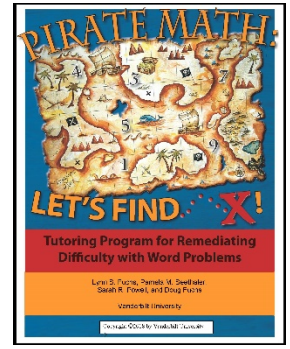
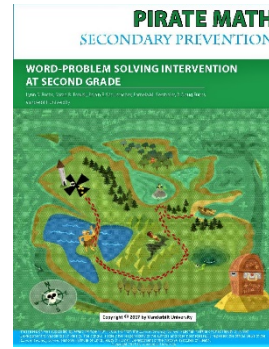
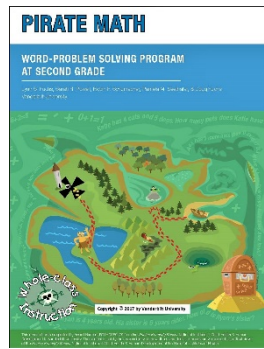


PROGRAM BASICS

Pirate Math for 2nd and 3rd Grade
Developed at Vanderbilt University



A. Key Implementation Criteria:

1. Pirate Math comprises whole-class (Tier 1 or primary prevention) and small-group (Tier 2 or secondary prevention) levels of word-problem instruction for use with students at 2nd and 3rd Grade instructional levels.
2. All teacher-directed lessons prepared as scripts to help convey instructions to the class.

B. Program Skills:

1. The focus of Pirate Math 2nd Grade is single-digit and double-digit word problems of three types:
 - a) total problems (where parts are combined to result in a total)
 - b) difference problems (where quantities are compared to result in a difference)
 - c) change problems (where an event happens to change a starting amount, which results in an ending amount)
2. Pirate Math 3rd Grade focuses on and identify the underlying conceptual framework of three types of word problems (i.e., Total, Difference, and Change problems) as well as:
 - a) identify and ignore extraneous information
 - b) set up an algebraic equation to correspond to the structure of word problems
 - c) solve for the missing variable (i.e., "X"), as expressed in the algebraic equation
 - d) self-evaluate the reasonableness of solutions

C. Benefits:

1. Scientific evaluations of Pirate Math indicate that not-at-risk and at-risk second-grade students make greater progress with Pirate Math compared to students who do not participate in Pirate Math on assessments of word problems.
2. Pirate Math is designed for not-at-risk as well as at-risk students with math difficulties.

D. Costs:

1. Pirate Math 2nd Grade Whole Class Manual Unit Price: \$58.00
2. Pirate Math 2nd Grade Tutoring Manual Unit Price: \$38.00
3. Pirate Math 3rd Grade Tutoring Program Unit Price: \$38.00

E. Student Rewards and Recognition:

1. Students earn points during each lesson by following directions, being on task, and answering questions correctly.
2. When students have enough points, they get to pick a prize from the treasure chest.