

Pirate Math Equation Quest (PMEQ)

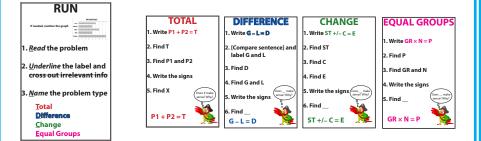
What is PMEQ?

PMEQ is an intensive **math word-problem intervention** for **third-grade students** experiencing math difficulty. During PMEQ, students receive explicit instruction on reading, interpreting, setting up, and solving word problems with a focus on **schemas**. Students also receive modeling and practice related to **understanding the equal sign** and **equation solving** within the word-problem intervention.

Which schemas?

Total: Are parts put together for a total? **Difference:** Are two amounts compared for a difference? **Change:** Is there a starting amount that increases or decreases to a new amount?

Equal Groups: Are there groups with an equal number in each group?

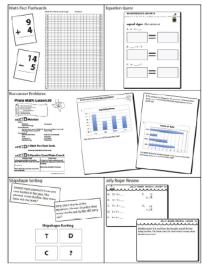


Why use PMEQ?

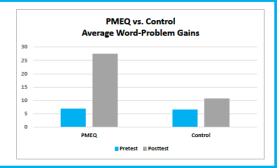
We worked with **304 students in 13 elementary schools**. After intervention, we posttested PMEQ and control students. PMEQ students outperformed students in the control group on tasks of word-problem solving, with **large effect sizes of** > **2.4**.

Components of PMEQ?

Interventionists administer PMEQ to individual students, **3 times per week**, **30 min per session**. Students receive the PMEQ intervention for **16 weeks**.



- (1) Math Fact Flashcards
- (2) Equation Quest
- (3) Buccaneer Problems
- (4) Shipshape Sorting
- (5) Jolly Roger Review



Visit our website for more information, demonstration videos, and free materials! www.piratemathequationquest.com

This project is funded by:







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