

Lesson Plan for a 5th Grade Mathematics Class

SQRQCQ

Topic: Solving word problems using two steps

Objectives: The student will...*(to be completed by the classroom teacher)*

Set Induction: Say to students, "Today I'm going to let you in on a little secret. When it comes to solving word problems, I have found a plan of attack that, if you practice it, is guaranteed to make solving word problems almost painless. Who wants to hear it?" The teacher then models **SQRQCQ** using one of the student's word problems for the day.

Activities:

1. Students turn to the assigned problems for the day.
2. Teacher models **SQRQCQ** through 2 or 3 examples, pointing out to the students how the strategy provides a way to attack and solve the problem.
3. Next the students try **SQRQCQ** with a partner on several problems. The teacher circulates and listens to the interaction, offering suggestion and modeling for those who are having difficulty.
4. Finally, students work on the assigned problems using **SQRQCQ** as they work.

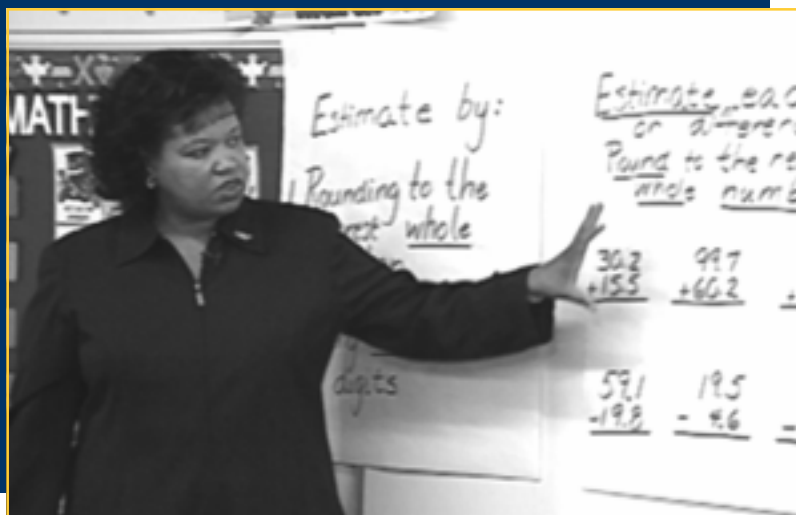
Closure: Ask the students to share what **SQRQCQ** has done for them and how confident they feel in using it.

Evaluation suggestions: observation of the paired **SQRQCQ**; observation of students as they work on the assigned problems (looking for "silent" **SQRQCQ** behaviors); students' success on solving the assigned problems; students' journal entries for that day and subsequent days; students' future attitude toward word problems; results on test and quizzes which include word problems

Resources and Materials: **SQRQCQ** instructions transparency, assigned and example word problems, student paper/pencils

Other Applications

SQRQCQ is a strategy that is designed specifically for math problems. However, the more generic version of the strategy, known as **SQ3R**, is illustrated elsewhere in this Teacher Guide and on the accompanying video. We challenge you to find many, many ways that such metacognitive strategies can enhance your students' thinking and learning!



Lesson Plan: SQRQCQ

SQRQCQ



★ **Survey**

quickly for a general idea or understanding of the problem

★ **Question**

What is the problem is asking for?

★ **Reread**

to identify facts, relevant information, and details

★ **Question**

What mathematical operation(s) do I apply?

★ **Compute**

solve the problem

★ **Question**

Is the answer correct? Does the answer make sense?

