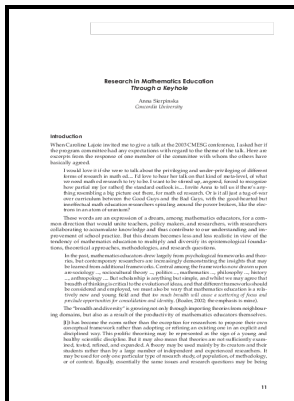


# Research within reach - secondary school mathematics : a research-guided response to the concerns of educators.

National Council of Teachers of Mathematics - ERIC ED247148: Research Within Reach: Science Education. A Research



Description: -

-Research within reach - secondary school mathematics : a research-guided response to the concerns of educators.

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Tags: #Fraction #proficiency #and #success #in #algebra: #what #does #research #say?

## Fraction proficiency and success in algebra: what does research say?

An argument can be made that the constructivist approach is at least as effective as the traditional approach. Such environments offer a rationale for curriculum integration that connects learning with the workplace.

## A Deep Understanding of Fractions Supports Student Success in Algebra

He claims that adding fractions has become a conceptual preoccupation, but that understanding the concept is not sufficient; there is the need for fluency in computation.

## Research within reach [microform] : secondary school reading : a research

Several researchers feel that the study of fractions and rational numbers often occurs before the student is ready.

JVER v29n2

Using a constructivist approach, teachers facilitate learning by encouraging active inquiry, guide learners to question their tacit assumptions, and coach them in the construction process. This should be expected because there is no division algorithm for more than two fractions; therefore, overgeneralisation did not occur in this example. In this study, each participant student was administered both treatments traditional and constructivist, but the order of administering the treatments was varied across student clusters to eliminate the possible confounding of order effects with treatment effects.

## Fraction proficiency and success in algebra: what does research say?

## **A Review of Within Reach: Science ERIC/SMEAC Science Education Digest**

The third error type stems from viewing fraction relationships as strictly part-whole comparisons in which one portion is a fixed size: there are six giants and since the number of giants is being divided into fifths, then there must be thirty giants. Twenty-seven students either made arithmetic errors or did not attempt to solve the equation.

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