

Main Results

With regard to the first research question, it was found that power is the only significant predictor of positive change in NAEP scores. However, this correlation was no longer relevant when all the policy attributes were considered at once.

As for the second question, an increase in the percentage of white students at or above the second level of proficiency (proficient) seemed related to specificity. This attribute predicted a decrease in the percentage of low socio-economic students at or above the basic level of proficiency. It was otherwise for authority, which predicted an increase in this group's achievement.

In terms of the influence of policy attributes on achievement in the mathematics domains, specificity and authority may be more related to improvements in mathematics procedural knowledge. However, no attributes seemed to have any effect on problem solving and conceptual understanding. In addition, too great power may be associated with a small decrease in achievement in the three learning domains.

The results also showed that changes in the percentage of low socio-economic students who had reached the basic proficiency level between 2000 and 2003 were associated with greater policy specificity. This relationship was not significant for the other study groups.

The authors also pointed out that the states with low NAEP scores and a large number of black and low-socio-economic level students showed greater improvements in their scores compared to states with high NAEP scores. However, the results of this study did not show that policy attributes were related to these gains.

Furthermore, power may be more negatively related to conceptual understanding than to the two other types of learning, while specificity and authority may be related to gains only in the case of procedural knowledge.

Lastly, the poorer NAEP scores were in 2000, the stronger the effect of power and authority was on the gains reported in 2003 in the cases of problem solving and conceptual understanding.

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