

# Mathematics and Science Achievement

By the year 2000,  
students will be first  
in the world in  
mathematics and  
science achievement.

*For our students to develop the mathematical and scientific knowledge, skills, and attitudes necessary to compete in a global economy, we must continue to reformulate our mathematics and science curricula and instruction as methods to be consistent with the best available instructional principles.*

63% of the teachers in the DoDDS Hessen District who were of a mechanical level of mathematics program implementation in Spring 1996 had moved to a higher level of use in Spring 1997. All of the teachers assessed were found to be implementing the mathematics program in accordance with the National Council of Teachers of Mathematics.

In mathematics, the achievement gaps, (as measured by the Comprehensive Tests of Basic Skills (CTBS/4)), between DoDDS African American and Hispanic students in grades 3, 5, 7, 9, and 11 and the DoDDS baselines decreased slightly.

In science, the achievement gaps for the DoDDS African American and Hispanic students in grades 3, 5, 7, 9, and 11 decreased significantly. The gaps for African American students, in particular, have decreased dramatically compared to 1994 baselines.

In mathematics, after a decline in 1996, the percentage of DoDDS students in grades 3, 5, 7, 9, and 11 scoring in the upper two quarters on the Comprehensive Test of Basic Skills (CTBS/4) increased by 2%.

In science, the percentage of DoDDS students in grades 3, 5, 7, 9, and 11 scoring in the upper two quarters on the Comprehensive Tests of Basic Skills (CTBS/4) increased by 5% compared to the 1994 baseline.

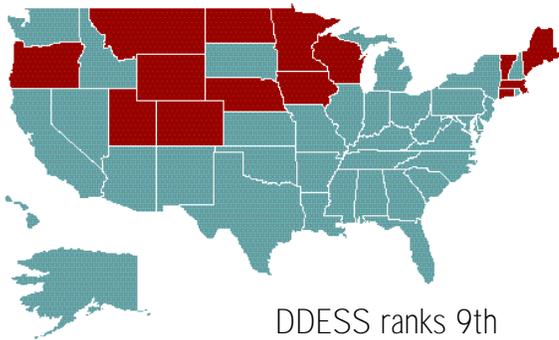
In mathematics, the percentage of DDESS students in grades 3, 5, 7, 9, and 11 scoring in the upper two quarters on standardized tests increased by 3%.

In science, the percentage of DDESS students in grades 3, 5, 7, 9, and 11 scoring in the upper two quarters on standardized tests increased by 6%.

DDESS 12th graders scored lower than the national average on the mathematics portion of the Scholastic Assessment Test (SAT). DoDDS 12th graders scored slightly below the national average on the mathematics SAT.

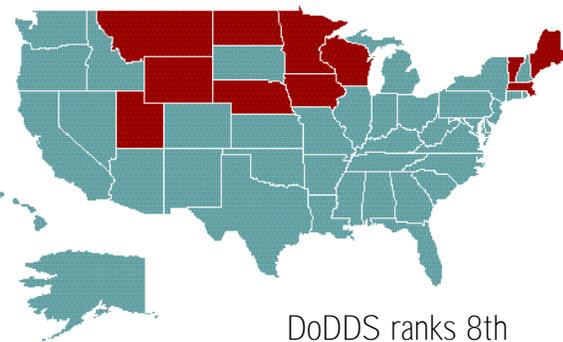
# Goal

## DDESS NAEP 8th Grade Science



DDESS schools ranked 9th among the 44 states and jurisdictions reported for the eighth grade science assessment on the National Assessment of Educational Progress (NAEP) in 1996.

## DoDDS NAEP 8th Grade Science



DoDDS schools had the 8th ranked scale among the 44 states and jurisdictions reported for the eighth grade science assessment on the National Assessment of Educational Progress (NAEP) in 1996.