



National Training Network

## **Methodology Research**

Bremerton School District  
Washington  
2008 – Present

## **Algebraic Thinking and Key Elements to Algebra Success Results for Bremerton School District 2008 – Present**

**Implementation:** Bremerton School District began working with National Training Network to implement the Algebraic Thinking (AT) curriculum in grades 6, 7, and 8 in the summer of 2008 and the Key Elements to Algebra Success (KEAS) supplement in grade 9 in the summer of 2010

**Training:** Teachers were trained in AT prior to the start of the 2008 – 2009 school year and follow up trainings were offered each subsequent summer through 2011 for new and returning teachers. Algebra teachers were trained in KEAS prior to the start of the 2010 – 2011 school year.

**Support:** National Training Network provided onsite coaching at each of the middle schools and the high school in Bremerton on an average of three days per month per school.

**Placement/Course Eligibility:** Students were placed in AT based on the previous year's WASL/MSP scores. All ninth grade algebra students in Bremerton High School were enrolled in KEAS. Each school determined the cut off score for placement, however all students who scored below grade level were recommended to be placed in AT, including special education students.



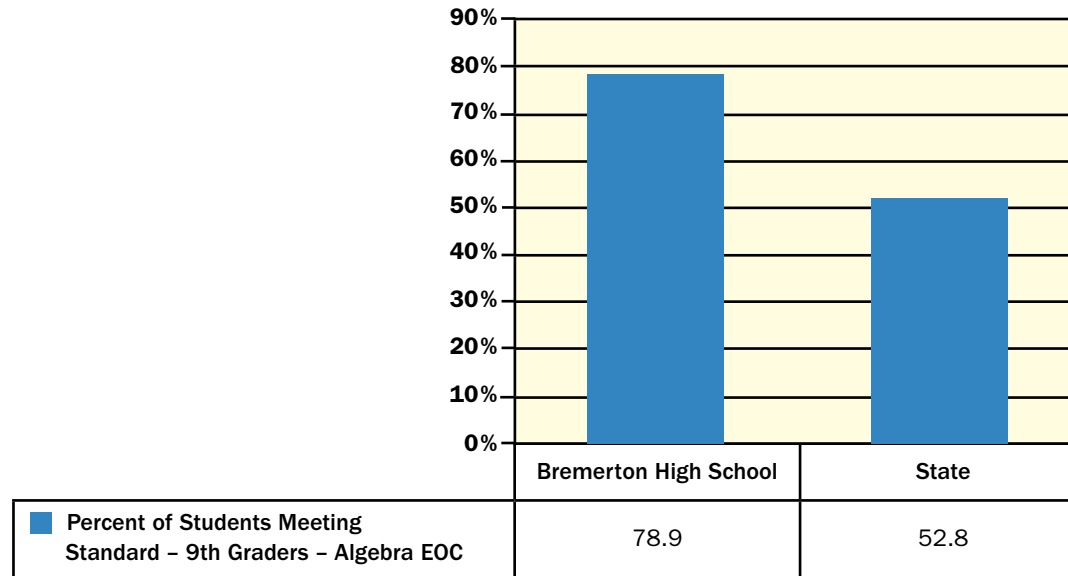
National Training Network

[www.NTNMath.com](http://www.NTNMath.com)

1.800.686.1001

## Difference in Percent of Students Meeting Standard Bremerton School District – Algebra EOC – 9th Graders 2008 – Present

### Percent of Students Meeting Standards – 9th Graders – Algebra EOC



The graph illustrates the percent of students the met standard on the 9th grade Algebra EOC exam in Washington. At Bremerton High School, 218 ninth graders took the algebra EOC in 2011. Bremerton High School 9th graders in Algebra out performed 9th grade algebra students in the state by 26.1%. The majority of these ninth graders took Algebraic Thinking two years prior in each 7th and 8th grade. NTN recommended that once students were placed in Algebraic Thinking initially they remain in Algebraic Thinking through algebra.

This is the first year Washington State administered an End of Course assessment in Algebra. The End-of-course assessments for high school mathematics were implemented statewide in the 2010 – 11 school year and replaced the mathematics portion of the High School Proficiency Exam (HSPE).

Data Collected from Washington State website: <http://reportcard.ospi.k12.wa.us/EocDetail.aspx?schoolId=1655&reportLevel=School&year=2010-11&orgLinkId=&waslCategory=1&gradeLevelId=9>

