



National Training Network

Methodology Research

Duval County Public Schools

Florida

2009–2010

Algebraic Thinking Results for Duval County Public Schools 2009 – 2010

Implementation: National Training Network implemented Algebraic Thinking with the “Intensive Math Classes” in 21 schools in the fall of 2009. (Duval County, Florida).

Training: For 2008 – 2009, training for Foundations was delivered in a five day workshop. Two days were completed before the start of the school year and three days, completion of training, were held throughout the school year. For 2009-2010, training took place during the school year beginning during the month of October during school days as teachers were provided with substitutes.

Support: For 2008 – 2009, National Training Network provided onsite coaches 3 days per month for five schools and one day per school per month during the 2009 – 2010 school year for each of the 30 schools. During the 2010-2011 school year National Training Network provided onsite coaches 2 days per month per school for 3 schools beginning in January 2011 due to lack of funding.

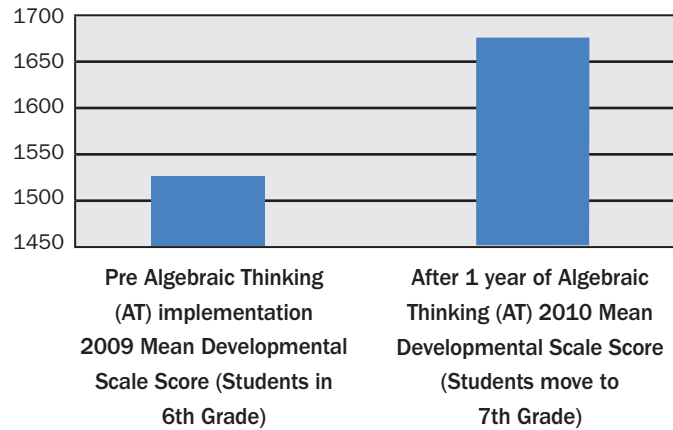
Placement/Course Eligibility: Students were selected to be in the “Intensive Math Classes” based on their Developmental Scale score at the end of sixth grade. Students scoring at levels 1 and 2 on the FCAT exam were included in the treatment group.



Duval County Public Schools 2009 – 2010

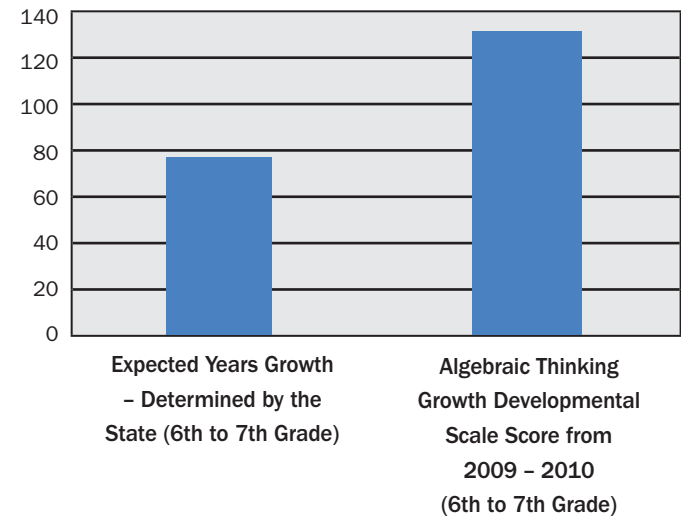
Duval County Public Schools
Mean Developmental Score
Pre and Post Algebraic Thinking

Graph I



Duval County Public Schools
Expected Years Growth Versus Growth
with Algebraic Thinking

Graph II



Graph I above shows the results of Algebraic Thinking after one year. The average Developmental Scale score of students prior to Algebraic Thinking exiting sixth grade was **1535**. The average Developmental Scale score of the students included in the treatment group at the end of seventh grade was **1670**.

Graph II above displays the expected year's growth on the FCAT exam in Florida for students between the end of sixth grade and the end of seventh grade (**79** points). Algebraic Thinking instruction yielded an average gain of **135** Developmental Scale score points for the same period. This exceeded the state average by **56** points contributing to the decrease in the achievement gap between "Intensive Math" students and students previously scoring in levels 3 and above. (**170% growth**)

Also of note is the growth in schools achieving AYP. Prior to implementation 10 of the 21 schools made AYP in mathematics. Following year one of implementation 21 of 21 schools made AYP.

<http://fcats.fldoe.org/mediapacket/2010/default.asp>.

