



National Training Network

## **Methodology Research**

Prince George's County

Maryland

2005–2009

## Algebraic Thinking Results for Prince George's County Schools 2005 – 2009

**Implementation:** Prince George's County Public Schools began working with National Training Network to implement the Algebraic Thinking curriculum in grade 6 in the summer of 2005, grade 7 in the summer of 2006, and grade 8 in the summer of 2007.

**Training:** Teachers were trained prior to the start of each school year and follow up trainings were offered each subsequent summer through 2009 for new teachers to Algebraic Thinking.

**Support:** National Training Network provided onsite coaches in each of the elementary and middle schools in Prince George's County on an average of two days per month per school. Students were placed in Algebraic Thinking based on the previous year's MSA scores.

**Placement/Course Eligibility:** All students who scored at Basic level on the previous year's MSA were recommended for placement in Algebraic Thinking; however, each school determined the cut-off score for placement into Algebraic Thinking for students who scored at Proficient levels on the previous year's MSA.

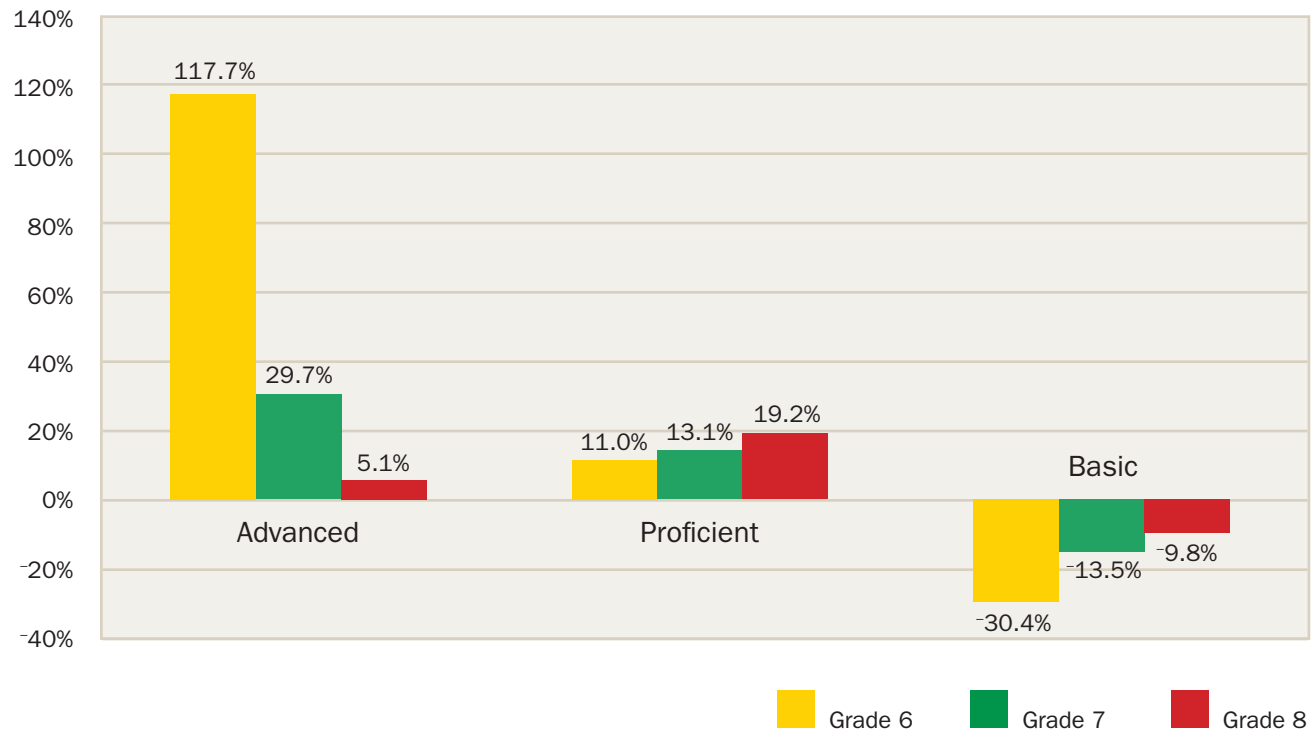


National Training Network

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

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## Percent of Change – Prince George’s County MSA Results – Grades 6, 7, and 8 2005 – 2009



The graph illustrates the percent of change for students in grades 6, 7 & 8 in Prince George’s County Schools between 2005 and 2009. Note that the percent of change of students scoring at the Lowest Level (Basic) decreased at 6th grade by **-30.4%**; at 7th grade by **-13.5%**; at 8th grade by **-9.8%**. Whereas, correspondingly, at Grade Level (Proficient) increased at 6th grade by **11.0%**; at 7th grade by **13.1%**; at 8th grade by **19.2%**. Of even more note, the Highest Level (Advanced) increased at 6th grade by **117.7%**; at 7th grade by **29.7%**; at 8th grade by **5.1%**.

\*Data collected from Maryland state website: <http://mdreportcard.org/>



## Algebraic Thinking Results for Prince George's County Schools 2005 – 2009

MSA Levels - Grades 6 - Mathematics - Percent			
	Advanced	Proficient	Basic
2005 – NON AT	7.9	45.3	46.7
2006 – AT-Coaching	8.9	47.2	44.7
2007 – AT-Coaching	14.7	51.4	33.9
2008 – AT-Coaching	20.5	46.6	33.0
2009 – AT	17.2	50.3	32.5
<b>Percent of Change from 2005 – 2009</b>	<b>117.7%</b>	<b>11.0%</b>	<b>-30.4%</b>

MSA Levels - Grades 7 - Mathematics - Percent			
	Advanced	Proficient	Basic
2005 – NON AT	5.0	34.9	60.1
2006 – NON AT	6.4	39.6	54.2
2007 – AT-Coaching	7.4	38.6	54.0
2008 – AT-Coaching	9.1	44.6	46.3
2009 – AT	8.3	44.8	46.9
<b>Percent of Change from 2006 – 2009</b>	<b>29.7%</b>	<b>13.1%</b>	<b>-13.5%</b>

MSA Levels - Grades 8 - Mathematics - Percent			
	Advanced	Proficient	Basic
2005 – NON AT	8.1	27.5	64.4
2006 – NON AT	8.9	25.0	66.1
2007 – NON AT	11.0	26.6	62.4
2008 – AT-Coaching	13.5	28.9	57.6
2009 – AT	11.5	31.7	56.8
<b>Percent of Change from 2007 – 2009</b>	<b>5.1%</b>	<b>19.2%</b>	<b>-9.8%</b>

The three tables above show the percent of students who scored basic, proficient, and advanced in grades 6 – 8 for the years 2005 – 2009. The year 2005 is provided as a base year with students in grades 6 entering Algebraic Thinking in the 05 – 06 school year. On-going coaching was provided to teachers with grade 6 teachers receiving three years, grade 7 teachers receiving two years, and grade 8 teachers receiving one year at the time of when the data was collected. Percentages in blue and orange boxes represent the percent of change. Of interest is the consistent shift of students from Basic to Proficient to Advance. Also of note is the significant increase in advanced students, as well as, proficient levels indicating the rigor of the Algebraic Thinking curriculum.

\*Data collected from Maryland state website: <http://mdreportcard.org/>

