



National Training Network

Methodology Research

Detroit Public Schools

Michigan

2005–2008

Algebraic Thinking Results for Detroit Public Schools 2005 – 2008

Implementation: Detroit Public Schools began working with National Training Network to implement the Algebraic Thinking curriculum in grades 6, 7, and 8 in the summer of 2004.

Training: Teachers were trained prior to the start of the school year and follow up trainings were offered each subsequent summer through 2007 for new teachers to Algebraic Thinking.

Support: National Training Network provided onsite coaches in each of the middle schools in Detroit Public Schools on an average of one day per month per school.

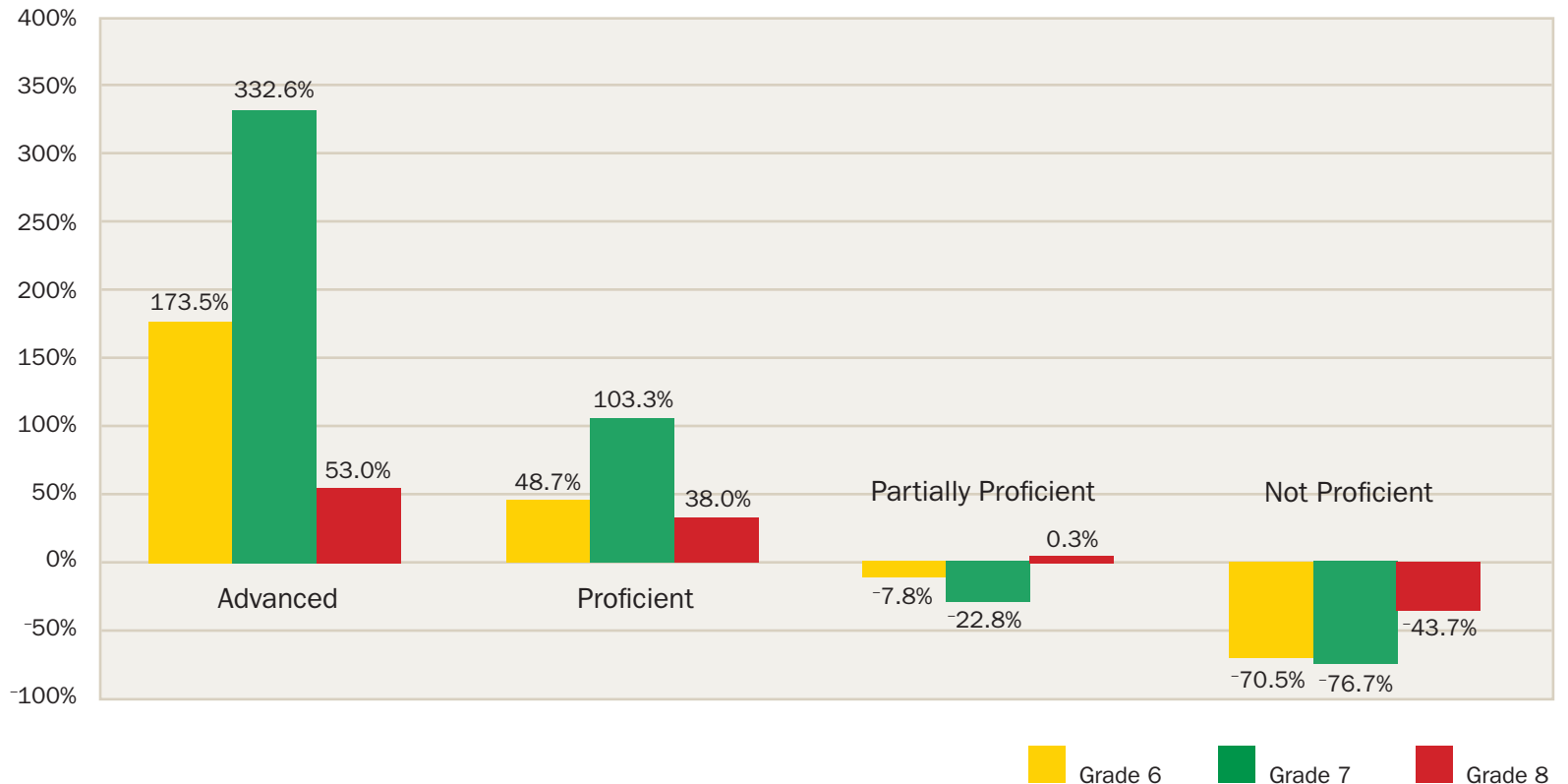
Placement/Course Eligibility: The MEAP state exam is administered in October of each year to assess students' understanding of math skills from the previous year. Students were placed in Algebraic Thinking based on the previous year's MEAP scores. Each school determined the cut off score for placement in Algebraic Thinking for students who scored Partially Proficient or Not Proficient on the MEAP.



National Training Network
www. NTNMath.com
1.800.686.1001

*Data collected from Michigan state website: http://www.michigan.gov/mde/0,1607,7-140-22709_31168_40135--,00.html

Percent of Change – Detroit Public Schools MEAP Results – Grades 6, 7, and 8 2005 – 2008



The graph above illustrates the percent of change for students in grades 6, 7, and 8 in Detroit Public Schools between 2005 and 2008. Note that the percent of change of students scoring at Not Proficient decreased at 6th grade by **-70.5%**; at 7th grade by **-76.7%**; at 8th grade by **-43.7%**. Likewise, the Partially Proficient decreased at 6th grade by **-7.8%**; at 7th grade by **-22.8%**; at 8th grade by **0.3%**. Whereas, correspondingly, the Proficient increased at 6th grade by **48.7%**; at 7th grade by **103.3%**; at 8th grade by **38.0%**. Of even more note, the Advanced (highest level) increased at 6th grade by **173.5%**; at 7th grade by **332.6%**; at 8th grade by **53.0%**.

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Algebraic Thinking Results for Detroit Public Schools 2005 – 2009

MSA Levels - Grades 6 - Mathematics - Percent

Fall Test	Level 1 – Advanced	Level 2 – Proficient	Level 3– Partially Proficient	Level 4 – Not Proficient
2005 – with coaching	6.8	23.8	40.9	28.5
2006 – with coaching	8	27.2	43.7	21.2
2007 – with coaching	11.3	27.9	39.8	21
2008	18.6	35.4	37.7	8.4
Percent of Change from 2005 – 2008	173.5%	48.7%	-7.8%	-70.5%

MSA Levels - Grades 7 - Mathematics - Percent

	Level 1 – Advanced	Level 2 – Proficient	Level 3– Partially Proficient	Level 4 – Not Proficient
2005 – with coaching	4.3	18.3	48.6	28.8
2006 – with coaching	7.1	21.7	51	20.2
2007 – with coaching	13	30.5	45.8	10.7
2008	18.6	37.2	37.5	6.7
Percent of Change from 2005 – 2008	332.6%	103.3%	-22.8%	-76.7%

MSA Levels - Grades 8 - Mathematics - Percent

	Level 1 – Advanced	Level 2 – Proficient	Level 3– Partially Proficient	Level 4 – Not Proficient
2005 – with coaching	8.3	24.5	35.6	31.6
2006 – with coaching	7.1	31.9	43.1	17.8
2007 – with coaching	10.7	27.9	35.6	25.9
2008	12.7	33.8	35.7	17.8
Percent of Change from 2005 – 2008	53%	38%	0.3%	-43.7%

The three tables above show the percent of students who scored Not Proficient, Partially Proficient, Proficient, and Advanced in grades 6 – 8 for the years 2005 – 2008. As the first year that all students in grades 6 – 8 were required to take the MEAP, the year 2005 is provided as the base year with students in grades 6, 7, and 8 entering Algebraic Thinking in the 2004 – 2005 school year. Percentages in blue and orange represent the percent of change. Of interest is the consistent shift of students from Not Proficient to Partially Proficient to Proficient to Advanced, indicating the rigor of the Algebraic Thinking curriculum.

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