

# Meadow Hall Elementary School 2010-2011 School Improvement Plan - Math

## STUDENT/STAKEHOLDER FOCUS

LT uses Math Pathways, MCPS-AP, TN2, & MSA data to determine improvement goals.

### Math Pathways Enrollment Spring 2010

- Targets met in 17 of 20 demographics.
- Passing rates not available as of 8/3/10

### MCPS-AP Math Unit Test Results EOY 2010

- Results for all demographics varied little (+ and -) from EOY 2009 results.
- Special Education students fell short of target for all strands by 16 to 27 percentage points.
- Stagnant results correlate to small MSA gains.

### TN2 Spring 2010

- Math – All demographics except African American made strong gains towards the MCPS goal.
- Computation – Hispanic and LEP students achieved at lower levels than 2009, both by more than 10 percentage points.

### MSA Spring 2010

- 3<sup>rd</sup> Grade & 5<sup>th</sup> Grade did not achieve AMO by 5 and 1 percentage points, respectively.
- Four demographics did not achieve AMO, all by 6 or less percentage points.
- The passing gap between White/Asian and African-American/Hispanic groups averaged 10.6 percentage points.
- All demographics achieved low percentages of 'Advanced' scores and made little progress towards SIP goals.

MSA Advanced Scores - Math				
	Goal	2009	2010	2011
All	30%	19.6%	19.7%	
AfAm	25%	6.4%	4.0%	
His	25%	3.8%	8.2%	
White	50%	35.9%	34.8%	

## FACULTY AND STAFF FOCUS

Focus for action plans and staff development:

- Using MCPS-AP Pre-assessments to group students for math instruction.
- Raising the percentage of students scoring 'Advanced' on the MSA.
- Increasing proficiency with basic facts.
- Acquiring research-based math interventions and training in same.

## MEASUREMENT, ANALYSIS, AND KNOWLEDGE MANAGEMENT

Staff uses the following math assessments to measure progress:

- TN2 Math & Comp
- MSA Math
- MCPS-AP Pre-Assessments, Formatives and Unit Tests

## LEADERSHIP

- Our school's vision, mission and core values are posted throughout the school and delineated on the agendas of Leadership Team (LT) meetings.
- Our LT Mission: *As representatives of all stakeholder groups, the LT will plan, implement, monitor and evaluate a SIP that ensures student and school-wide success. Through collaboration and open and reflective communications, we will make related decisions and provide feedback and support to all stakeholders.*
- We monitor what is working and what is not working to advance the student and stakeholder focus at our regular LT meetings and through regular data analysis and other feedback from teachers at regular grade level team meetings and vertical team meetings.

## STRATEGIC PLANNING

Math Achievement Goals:

### MSA Math 2011:

- + 8% from 82% to 90% of all students score 'Proficient' or above
- + 10% from 80% to 90% of African American students score 'Proficient' or above
- + 9% from 76% to 85% of Hispanic students score 'Proficient' or above
- + 16% from 19% to 35% of all students score 'Advanced.'
- + 26% from 4% to 30% of African American students score 'Advanced'
- + 22% from 8% to 30% of Hispanic students score 'Advanced'
- 75% of Special Education students score 'Proficient' or above

### TN2 Math and Math Computation 2011:

- + 8% from 62% to 70% of all 2<sup>nd</sup> graders score at/above 50<sup>th</sup> %ile in Math
- + 7% from 68% to 75% of all 2<sup>nd</sup> graders score at/above 50<sup>th</sup> %ile in Comp
- +10% from 60% to 70% of 2<sup>nd</sup> grade AfAm students score at/above 50<sup>th</sup> %ile in Math
- +20% from 50% to 70% of 2<sup>nd</sup> grade Hispanic students score at/above 50<sup>th</sup> %ile in Math
- +17% from 58% to 75% of 2<sup>nd</sup> grade Hispanic students score at/above 50<sup>th</sup> %ile in Comp
- 50% of 2<sup>nd</sup> grade special education students will score at/above 50<sup>th</sup> %ile on both tests

### MCPS-AP Math Unit Assessments Spring 2011 End of Year Report

- + *n*% in each demographic, except SpEd, to reach the 2011 goal for each strand, where *n* represents the difference between 2010 performance and the 2011 goal
- 55% of all SpEd students will score 'Complete' understanding in the Algebra, Geometry, Measurement, and Number Concepts strands.

### Math Pathways Accelerated Math Instruction 2010

- +7.5% from 37.5% to 45% of 5<sup>th</sup> grade AfAm students passing Math 6 or higher
- Maintain or increase the percentage of 5<sup>th</sup> grade students passing Math 6 or higher in all other demographics

## PROCESS MANAGEMENT

- Meet weekly with each grade level team and meet monthly with vertical teams with discussions focused on curriculum, instruction, assessment, data review/analysis and student work pertinent to the SIP.
- Provide interventions and special programming for students with exceptional needs through CPS and EMT.
- Monitor SIP goals and action plans at LT meetings.
- Provide math intervention support for grades 2-5.
- Maintain student performance data on their command of basic facts.
- Analyze data at grade level and vertical team meetings and use PDSA for corrective action when warranted.

## PERFORMANCE RESULTS

MSA Trend Data – Math (% Passing)					
Year	07	08	09	10	11
<b>AMO</b>	<b>63.9</b>	<b>69.1</b>	<b>74.2</b>	<b>79.4</b>	<b>84.5</b>
All	79.7	82.3	80.4	82.2	
AfAm	64.1	88.5	79.3	80.0	
Asian	75.0	85.0	90.5	90.5	
His	78.3	75.5	68.3	75.9	
White	93.9	86.3	92.7	86.7	
FARMS	65.5	71.2	64.6	74.3	
SPED	56.7	68.8	55.6	75.0	
LEP	64.7	61.1	57.1	75.8	

TN2 Trend Data (Scores > 50%ile)						
Year	Math			Computation		
	09	10	11	09	10	11
All	49.0	62.5		63.6	67.9	
AfAm	63.6	60.0		72.7	80.0	
Asian	50.0	83.3		75.0	100.0	
His	44.0	50.0		68.0	57.7	
White	46.7	84.6		46.7	69.2	
FARM	36.0	41.4		48.0	65.5	
SPED	35.7	(<5)		57.1	(<5)	
LEP	28.6	45.0		71.4	60.0	

MCPS-AP Math 2009-10 (% 'Complete')						
Goal	Alg	Geo	Mea	Stat	Prob	Com
2010	60	75	50	65	75	55
2011	65	75	60	65	80	70
All	60	69	51	55	72	57
AA	56	73	48	45	73	47
As	78	76	58	63	75	67
His	54	64	49	53	67	55
Wh	64	70	52	60	76	63
SE	43	48	27	40	63	39
LEP	58	70	51	60	67	56

Advanced Math Enrollment (% Tiers 1 and 2)						
	Tar	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	Pass
All		47.8	55.9	47.1	68.4	
AfAm	2010-2011 45.0%	25.0	50.0	42.1	85.7	
Asian		42.9	62.5	57.1	62.5	
His		44.4	46.2	44.8	60.9	
White		68.2	73.3	57.1	76.5	
All			45.8	48.4	72.0	67.3
AfAm	2009-2010 45.0%	27.3	50.0	71.4	83.3	66.7
Asian		71.4	42.9	62.5	100.0	75.0
His		40.0	50.0	68.4	50.0	33.3
White		57.1	46.7	80.0	71.4	28.6