

### STUDENT AND STAKEHOLDER FOCUS

94.5% of students met proficiency in math with all sub-groups meeting AYP proficiency levels. As a result, we will continue to focus on increasing advanced achievement in math in grades 2-5 through accelerated math classes and differentiated instruction. In 2008, we had accelerated classes at grades 2-5; MSA 2009 data reflected a 3-7% increase in the number of students scoring advanced in grades 3-5. This year we have increased the number of students in accelerated classes by 5-15% in grades 2-5.

## **Burning Tree ES Math Goal 2009-2010**

### FACULTY AND STAFF FOCUS

- Conduct myMPCS training on accessing and using unit assessment data to pinpoint areas for reteaching and reassessment, and for identifying areas of strength for accelerated instruction.
- Create vehicle for teachers teaching the same math course to meet monthly as cross grade level team to focus on math course data analysis and instructional best practice reflection (math collaborative team time).
- Team level analysis of MSA and TN2 alignment to MCPS indicators
- Training in the use of Promethean Board and other technology to enhance math instruction
- Use of Collaborative Problem Solving process to develop intervention plans for students not meeting standard.
- Participation in data chats to focus on teacher and student level data.
- Survey staff to determine effectiveness of CTT process

### LEADERSHIP

Based on our shared beliefs of providing an engaging and challenging curriculum to all students and our commitment to working collaboratively to provide differentiated instruction, this goal focuses our collective efforts on increasing achievement in math. The administration and staff will closely monitor student progress through an analysis of formative and summative math data (individual student and class data) during math collaborative team time, data chats and leadership meetings. We will share our findings with parents at quarterly SIP meetings and PTA meetings.

### STRATEGIC PLANNING

By June 2010, students at Burning Tree will demonstrate increased academic achievement in math:

- The percentage of students scoring advanced on MSA math in grades 3-5 will be at or above 70%.
- The percentage of students scoring at or above the 70<sup>th</sup> percentile on the math sub-test on Terra Nova 2 in grade 2 will be at or above 65%.

### PROCESS MANAGEMENT

- Work in collaborative cross grade math teams, to determine student math course placement: use MCPS math unit assessment data and MCPS course completion guidelines, TN2 and MSA math data, and teacher input. Monitor student placement during Unit 1 using formative assessment data and make adjustments in placement prior to the start of Unit 2.
- Create an extended monthly math course collaborative team time (CTT) enabling cross grade math teams to: meet regularly to reflect on instructional best practices, analyze student work, and analyze student data (formative and unit assessment data). Utilize team and resource expertise to discuss student concerns. Use the collaborative problem solving process to develop intervention plans for students not meeting standard.
- Create CTT for resource specialists to discuss student needs; utilize staff meetings to provide time for specialists and grade level teams to discuss student needs.
- Use myMCPS data monitoring tools to analyze unit assessment data after each unit to identify areas for reteaching and acceleration. These tools will also be used to analyze individual student data.
- Use Fastt Math intervention program for grade 4 and 5 students below standard in computation. Use a fact family program for students below standard in computation in grades 2 and 3.
- Host two sessions of Math Builders, a number sense support program for students at risk in math based on standardized test and unit assessment data.
- Host Math Explorers, a mathematical thinking and problem solving enrichment program.
- Conduct vertical team training that addresses grade level math indicators and their alignment with TN2 and MSA.
- Provide VSC toolkit and other available materials for MSA and TN2 review.
- Host a parent coffee focused on critical questioning and problem solving processes in math.

### PERFORMANCE RESULTS

Analysis of MSA 2009 data shows that 61% of Grade 3 students, 68% of Grade 4 students, and 60% of Grade 5 students scored advanced. There was a 3-7% increase at each grade level in students scoring advanced compared to 2008, but we have not yet achieved our target of 70% overall.

Analysis of TN2 2009 data shows that 61% of Grade 2 students scored at or above the 70<sup>th</sup> percentile in the Math sub-test. This reflects a 1% decrease in students reaching this level compared to 2008, and does not yet meet our goal of 65% of students scoring at or above the 70% percentile.

### MEASUREMENT, ANALYSIS, AND KNOWLEDGE MANAGEMENT

- MCPS formative math assessments will be used in all math courses
- MCPS math unit assessments
- Quarterly analysis of report card grades
- Anecdotal observations
- Input from staff, students and parents regarding student placement in accelerated math courses
- Fastt Math data review
- Correlation analysis of end of year unit assessment totals with TN2 and MSA performance levels