

St. Patrick's Catholic School
School Improvement Action Plan
Established March, 2011

Goal: Students will improve overall math skills, with an emphasis in computation and problem solving skills.

Support Data from Profile

ITBS/Terra Nova 3/Explore

Standardized Assessments

AIMSweb, ALEKS, STARS

Local Assessments

Classroom pretests, School survey results
 8th grade entrance exams, Math checklists

Intervention: Students will use research-based strategies to improve math skills, with an emphasis in computation and problem solving.

Research/Best Practice

1. NCTM Principles and Standards for School Mathematics. 2. Partnership for 21st Century Skills

Implementation Strategies	Person(s) Accountable	Timeline Start date	Resources	Staff Development
1. Students will learn and apply the school-wide TIPS problem solving process.	All Teachers	August, 2010	TIPS problem solving Charts NCTM standards ADD Math Singapore Problem Solving materials	Math committee developed and trained the staff on the use of school wide Problem Solving Plan—TIPS. Kim Sutton workshop Singapore Problem Solving Training
2. Students will see that math has ties in all curricular areas.	All teachers	August, 2010	Kim Sutton's math materials	2. Staff in-service on Math by ESU 3-Debbie Schrader. Primary teachers visited Spring Lake School to see their Mathematics Lab.
3. Using data analysis, students who show mastery of given content will be identified and challenged using differentiated instruction.	Classroom math teachers	August, 2010	Text book pretests	AIMSweb training, Terra Nova 3/Explore training, STARS training
4. Using data analysis, students identified to be below grade-level will be provided the opportunity for additional math intervention within their math classes.	Classroom teachers, teacher assistants, TEAM teachers, TEAM teacher-assistants	August, 2010		AIMSweb training, Terra Nova 3/Explore training, STARS training

5. Using data analysis, students identified to be significantly below grade-level in grade 6 will be provided the opportunity for additional math intervention (160 minutes) during the school week.	6 th grade math teacher TEAM teacher	February, 2011	ALEKS math program	AIMSweb training, Terra Nova 3/ Explore training, STARS training
6. Students will be encouraged to further develop math skills outside of school time.	Teachers, Students, Parents	November, 2010	ALEKS math program	
7. Students will learn and apply basic addition, subtraction, multiplication, and division computation skills throughout math content.	Classroom math teachers	August, 2010	ALEKS, Kim Sutton Materials, Basic Fact Sheets	Kim Sutton Workshop
8. Older students will partner with younger students (Math Buddies) once monthly to work on math computation and problem solving games.	Classroom teachers, students	August, 2010		
9. Students who score in the top percentiles of their class on the St. Patrick's Math Matrix will have the opportunity to be challenged in advanced course placement, including Geometry.	Classroom teachers	August, 2010	Math Matrix	AIMSweb training, Terra Nova 3/ Explore training, STARS training
10. Students will be given opportunities to practice problem solving skills outside of the math classroom.	5 th grade math teacher, students	August, 2010	Super Star Math	
11. Students will be given opportunities to practice problem solving skills outside of the math classroom by participating in extracurricular clubs with problem solving as a focus area.	Various teachers and volunteers	August, 2010	Robotics Chess Club Math Club Math Counts, Archdiocesan Math Contest	