# Tippecanoe Valley High School

# School Improvement Plan

# Math 2008-2009

**Goal #3: All students will improve skills in math computation and math problem solving and application.**

**Benchmarks:** By Spring of 2009, > 71% of 10th graders will meet State Standards for Math on ISTEP+ data. We will set a new benchmark with students taking the Algebra I Core 40 Exam in the spring of 2009.

|  |  |  |  |
| --- | --- | --- | --- |
| **Summary of KEY Strategies/Activities Implemented** | **Summary of Checkpoint Data Related to IMPLEMENTATION**  **Of Strategies/**  **Activities** | Summary of Checkpoint Data Related to Student IMPACT (Performance) | **Analysis of Effectiveness of Strategy/Activity** |
| **Strategies:**  Summer School (transportation provided through grant)  Before and after school math help sessions  Independent computer tutorials  Implementation of Pre-algebra and Math Lab collaborative teaching  **Professional Development:**  Collaborative time set aside for teachers with Pre-Algebra and math lab responsibilities.  **Support for Family learning/training:**  Bi-annual parent teacher conferences to update parents on student performance.  Grade reports every 3 weeks.  General Education Interventions for students not progressing in Math courses  ISTEP and NWEA progress reports are sent home to parents by mail to update student progress in math.  **Technology:**  During the building project 1 additional lab was added for at total of 4 computer labs. Students now have access to 106 computers. | **Strategies:**  Summer school course offered in Algebra 1. Transportation provided through a grant  Two teachers are trained in Hands-on-Algebra and have materials in classrooms. Collaboration time provided for those teachers to work together to provide better instruction.  **Professional Development:**  Teacher provided training for freshman academy concept. Will help with students making the transition from middle to high school.  **Technology:**  NWEA Math is given to all 9th grade Algebra students annually at the beginning and end of each course to establish benchmarks and measure individual growth.  PLATO Software Modules were used for remediation sessions that were supervised by remediation coach and licensed teachers.  PLATO will be used to help in credit reclamation for students not passing Algebra by the 3rd try. | **ISTEP+ %** students meeting standards in Math  F’05 F’06 F‘07  Grade 9 65% 70% 69%  Grade 10 57% 59% 68%  **Key errors** made by students not meeting standard on ISTEP+ Math  9th Grade: Problem Computation, Slope/Intercept Form, Ratio/Proportions, Didn’t attempt problem, Volume.  10th Grade: Didn’t answer ? asked, Computation, Volume, Systems of Equations, Didn’t show work, didn’t attempt problem. | **Goals and benchmarks**: Grade 10 met their benchmarks by +9%  **AYP for Math:** The overall 10th grade group made AYP at 66% passing. The white sub group made AYP at 70% passing.  **Data Trends:** 9th grade students continue to improve on ISTEP. This will be the first group to take the Core 40 End of course Assessment. They will take this test at the end of courses in Algebra I. Key errors meetings brought attention to student needs and found that many students do not even attempt problems. Also, some math concepts on the applied skills portion of ISTEP are presented in a more abstract way then are taught in class. |