

Go Math!

**Implementation Plan &
District Review for PTHSD**

Go Math! Implementation at PTHSD

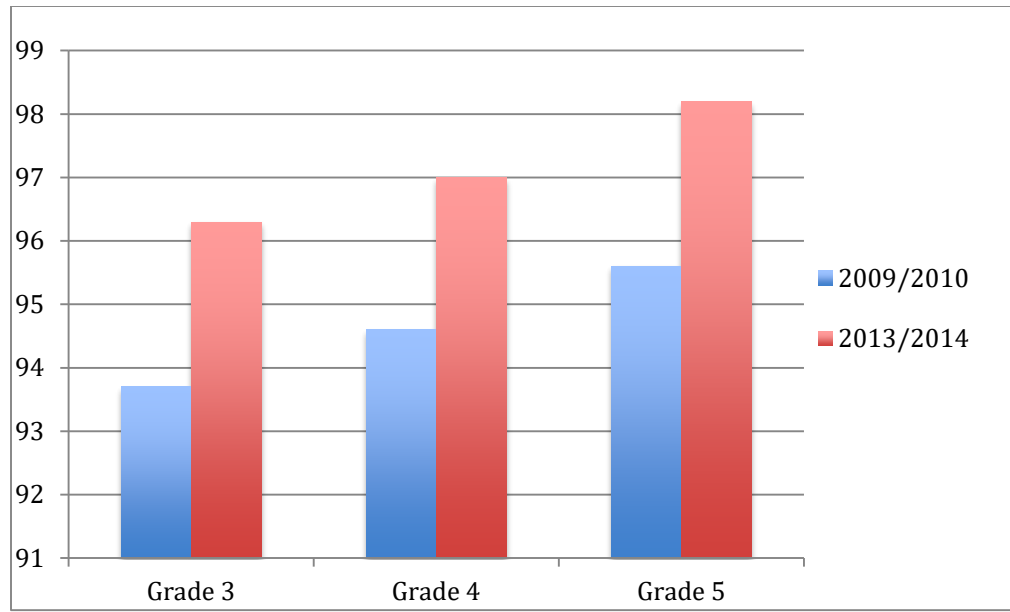
- A selection committee comprised of teachers, parents and administrators was formed in the 2008-2009 school year to identify a math program that was based on the Common Core State Standards (CCSS), included online material to support instruction, and provided resources geared toward struggling students.
- The committee evaluated the following math programs: **Think Math, Everyday Math** and **Go Math!**. The committee made the decision that **Go Math!** best supported the learning needs of student in the PTHSD.
- The **Go Math!** program was phased into the district using a three year implementation plan.
 - Year one, 10/11-school year, a pilot of the program took place in grades 2, 3 & 4.
 - Year two, 11/12-school year, grades 2, 3 & 4 adopted the **GO Math!** program and a pilot of the program took place in grades k, 1 & 5.
 - Year three, 12/13-school year, Grades k, 1 & 5 adopted the **GO Math!** program.
- Professional development on the CCSS and the **Go Math!** program was provided simultaneously to all elementary teachers.
- Additional training was given to Basic Skills teachers on utilizing available resources to support at-risk learners.
- Parent nights were offered to explain the new program and focused on the use of **Think Central** (the online component of **Go Math!**) to support student learning at home.

Go Math! Program Highlights

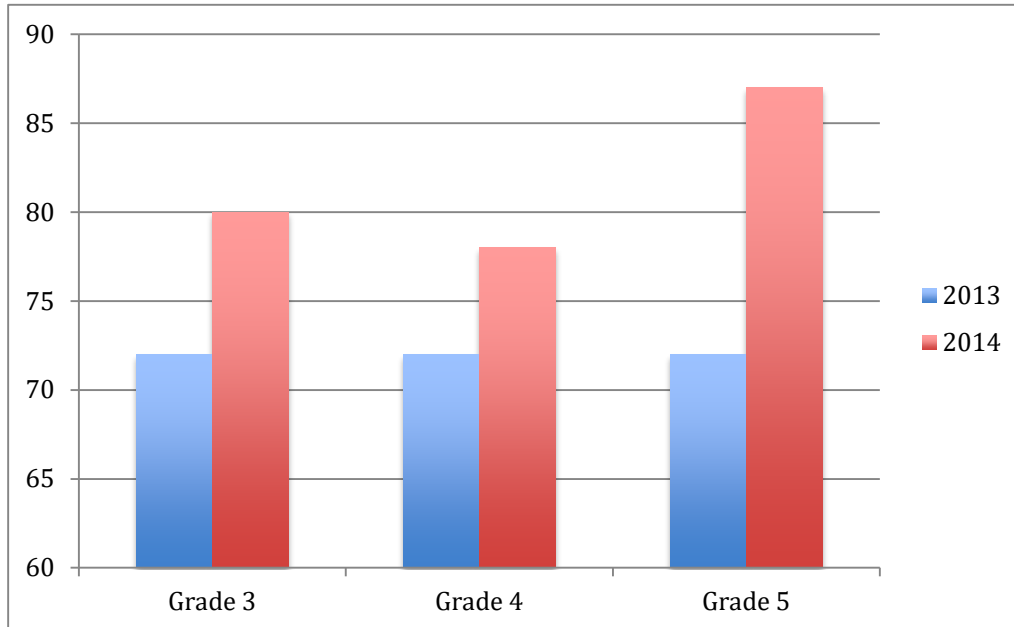
- **Go Math!** supports teaching and learning by incorporating the following instructional approaches:
 - Using the **5E instructional model**. (A structured, researched-based sequence consisting of five phases: engagement, exploration, explanation, elaboration and evaluation)
 - **Engagement** - Students access prior knowledge through teaching and tasks to help them become engaged in the concept.
 - **Exploration** - Students generate new ideas and explore possibilities.
 - **Explanation**- Students demonstrate understanding through explaining what they know, giving the teacher an opportunity to guide them toward deeper learning.
 - **Elaboration** – Students extend and apply their knowledge.
 - **Evaluation** – Students examine their own understanding, while the teacher monitors and evaluates progress.
 - Establishing clear mathematical goals.
 - Incorporating tasks that promote reasoning, modeling and problem solving.
 - Using and connecting mathematical models and representations.
 - Communicating mathematically.
 - Presenting purposeful questions.
 - Building procedural fluency from conceptual understanding.
 - Supporting students' mathematical struggles.
 - Eliciting and using student work to gauge understanding.
 - Providing enrichment for advanced students

Go Math! Program Research & Reviews

- 295 school districts in New Jersey use the **Go Math!** program
- **Go Math!** is the #1 selling elementary math program in the nation.
- Several studies have confirmed the effectiveness of the **Go Math!** Program:
 - **Educational Research Institute of America (2011)** conducted a semester study on the Go Math! Program. The study showed that students using the **Go Math!** program experienced significantly more growth in math ability and were outperforming comparison students by the end of the semester.
 - **Cobblestone**, an independent research firm, conducted a gold-standard, randomized two year control trial study of the **Go Math!** program. It examined student math performance across 70 classrooms in seven states. Studies found that students using the program had significantly greater state achievement scores.
 - A five year review of NJASK scores for the Parsippany-Troy Hills School District revealed that the **GO Math!** program was associated with increased mathematics achievement. The chart below compares student achievement scores on the NJASK for students in grades 3, 4 and 5. It reveals that for all grade levels examined, the percentage of students scoring proficient or higher was greater after using **Go Math!**.



- A similar study of New Jersey school district showed similar results. A one year review of NJASK scores for a suburban school in the state of NJ revealed that the **GO Math!** program was associated with increased mathematics achievement. The chart below compares student achievement scores on the NJASK for students in grades 3, 4, and 5. It reveals that for all grade levels examined, the percentage of students scoring proficient or higher was greater after using **Go Math!**



PTHSD Go Math! Survey

- Seventeen teachers in grades K-5 and ten principals were recently surveyed regarding the Go Math! program. Below are some highlights of the survey:
 - All 17 teachers surveyed reported that the **Go Math!** program supports and enhances the district's curriculum.
 - All 17 teachers surveyed reported that the **Go Math!** program met student learning needs in mathematics.
 - All 10 elementary principals reported that they find the **Go Math!** program addresses all student learning needs in our district.