

Congratulations **HEF Grants Writers For 2009-2010**

F.I.R.S.T. ROBOTICS COMPETITION

David Kohler

Hamilton High East (Steinert)

The F.I.R.S.T. Organization creates tasks the robots are to perform in competition. No suggestions about design or construction are given. The student team must design & build their robot to complete the tasks in the fastest, sure way possible to maximize scoring. They only have six weeks to complete the task. Innovation must be a priority. The students learn & use math, physics, and chemistry. They must build the robot which teaches the student many skills.

PRODUCING ELECTRICITY USING ALTERNATE ENERGY

Scott Innocenzi

Hamilton High North (Nottingham)

The US must look toward Alternative energy sources like solar, wind, and geothermal. With solar energy becoming cheaper for its application and fuels increasing in cost & demand, solar energy is expected to become a major factor for energy production. The program teaches students how to design and draw architectural building and prepare for schools of Architecture. The grant would enable us to design beyond the principles of just theory & apply real collected data on how alternate energy would work in their designs.

THREE CUPS OF TEA IN FIFTH GRADE

Janet Richards, Joan Petrowski, Diane Donovan

Mercerville Elementary

Each year our new 5th graders enter with the richness of diverse educational and economic backgrounds. In three Cups of Tea, the author explains that in Pakistan, by the third cup of tea, you are considered a friend. To meet all learning styles, some chapters will be read in small groups, some aloud by the teacher and some independently. All chapters will be discussed in reading circles. The story is how an injury turned into monumental effort to build schools in appreciation for the villagers who led him back to health.

STUDY ISLAND

Susan Wydner

Hamilton High North (Nottingham)

Study Island is a web-based instructive, self-paced product reports evidence of success with test takers. These student users average a 12.2% increase from pre test to post test scores. The program is organized into topics of the NJ Core Curriculum Content Standards. The students are enthusiastic participants, and the teachers who have worked with the program stated that the students have shown enthusiasm & had a greater desire to approach test preparation through another venue.

SIMULATIONS WORK!

Jay Hutchinson

Hamilton High North (Nottingham)

The use of simulations in the classroom is a valuable component of the educational process. Students need to be able to experience activities and decision-making that business people deal with each day. This simulation will provide students with the opportunity to solve problems and make decisions that will impact future events and activities throughout the duration of the simulation. By stimulating critical thinking skills, this simulation encourages students to move to a significantly higher level of achievement.

SO...THAT'S WHAT IT LOOKS LIKE!!

Isabelle Sutton, Milo McGuire

Hamilton High North (Nottingham)

Many students are lacking the prerequisite skills to perform math based on four math clusters and the skills required to solve problems as required on test preparation as a result of the No Child Left Behind Act. Often students are diagnosed with learning and /or information processing difficulties, so the more methods we use to deliver instruction to these students the more likely they are to have success. By using the overhead projector, along with overhead manipulatives, the basic mathematical concepts in each of the four clusters can be introduced upon a basic level and then expanded upon.

TECH LE ME ELMO

Shirley Rubino

Hamilton High North (Nottingham)

Even though I am enthusiastic about my lessons, the student' involvement in their own learning is what impacts on their learning. Elmo created enthusiasm in thousands of children. The ELMO TT02 S Document Camera created the connection between the technology and the beloved character, Elmo. The ELMO TT02 S will provide a source of technology that will not only eliminate that need for transparencies; it will also exponentially increase the versatility of a transparency. It will allow all students to develop visual aids for presentations. Students work can be displayed and saved digitally. Projects could be shared with other classes, schools, and e-pals.

BEYOND POWERPOINT: ENGAGING STUDENTS WITH VISUALLY RICH, COLLABORATIVE LESSONS

Christa Varacalli

Hamilton High West

Our students must not only become excellent readers and writers, but collaborators as well. "We must prepare students for jobs that do not yet exist, using technologies that haven't been invented, in order to solve problems that we don't even know are problems yet" E-LEARNING can easily embed speech, video, animations, and allow the students to create their own interactive quizzes and online learning experiences. IT will allow the students to set up interactive presentations that have complex branching.

Where in the world is?

Lynn Rich

Hamilton High North (Nottingham)

Our young adults are unprepared for an increasing global future and have limited understanding of the world. A recent report by United States education officials, a survey of nine industrialized countries revealed that one in five American adults, ages 18-24, could not identify Afghanistan on the world map, despite its prominence in the news. As we become a more diverse culture so to does the literature we study in our English classes. Finding the places we read about helps students to understand the people and how they interact with the places in which they live. By nature, geography is an interdisciplinary unit; it provides a lens through which other skills can be taught.