

GRANTS FUNDED DEC. 2018

Smart Board/Table - \$4950 Math/Science, grades K-400, for 800 students. Hands on learning in the class room using the Smart table to focus on the CRA instructional approach to teach math concepts. Concrete Representational Abstract (CRA) is a three step instructional approach that has been found to be highly effective in teaching math concepts. The first step is called the concrete stage. It is known as the doing stage and involves physically manipulating objects to solve a math problem. The representational (semi-concrete) stage is the next step. It is known as the seeing stage and involves using images to represent objects to solve a math problem. The final step in this approach is called the abstract stage. It is known as the symbolic stage and involves using only numbers and symbols to solve a math problem.

21 Century First Graders of the Future, , for English, Language Arts, Math, science, Social Studies, Bilingual/ESL, LOT, Careers and Technology, Special Ed, Advanced Academics. OSMO Genius kit and Applie Ipad, \$4522, Osmo turns an Ipad into an interactive learning experience. <http://www.playosmo.com>

Authors and Architects - English/Language Arts, Math, Science, Social Studies, Advanced Academics, 4th Grand GT identified with future goal of scaffolding into multi-grade level. 3D Printer. Design and build a model from the students' research. <http://www.stratasys.com>
\$4500.

Computer Science, UIL and Robotics Initiative - Grades K-12, 200 students. New computers for classroom and new student-led IT club. Update computers to enable 3D applications and more. \$960

Robotic Coding - 2nd grade. Math, Science, Careers and Technology, Advanced Academics, 150 students. Provide 24 Ozobots - small, smart, reprogrammable through drawn lines and color codes. Begin basic coding which advances with the student. \$1608

One Breath at a Time - DMind, Grades 5-12. Teaches stress resilience. Stress impacts the brain's systems for listening, attention focus, memory, thinking, language emotional regulation, empathy and healthy coping. Total cost \$13,200...TEF Grant of \$5000 and Niroga Grant for the remaining \$8200.

Peardeck for Students - Grades 7-8, 1000 kids. Program allows teachers to integrate with students' immediate 1 to 1 feedback throughout a lesson. \$1050

We Know Osmo - 2nd grade. English/Language Arts, Math, Careers and

Technology. Osmo games allow students to interact, create and manipulate objects with the use of Osmo to help answer questions posed through the Osmo game. \$3211

Full STEAM Ahead w/Osmos - 1st grade English/Language Arts, Math, Science, Career & Technology, Advanced Academics, Fine Arts, 150 students. Osmos with Ipad in the classroom. \$3560

See How We Grow - 7-8 grades, 150 kids, Math, Science, Social Studies, Career & Technology, Health/Wellness, Special Ed. Tower gardens to grow veggies and herbs hydroponically, for use in cooking labs. Also for use in Principles of Human Services, PALS (Practical Applications of Life Skills). Improve student performance through better nutrition. \$3079

Read Smarter, Not Harder - Scanning Reader Pens. English/Language Arts, Math, Science, Social Studies, Special Ed. Grades 2-4. Students with identified reading disabilities remain in general education and access their curriculum within the classroom without the need for a reader or other help. The pen allows them to read what might be a harder level for them. \$2375

Equipment to Modernize Digital Media Program, Grades 9-12, 100 students. Provide an IMac for digital media - video editing, photo editing, page design, podcasting/audio editing, etc. The goal is to accreditation in Adobe software products. \$1805

Working with Words Online - 4th grad English/Language Arts, 100 students. 3 year subscription to Words Their Way. Differentiate spelling and vocabulary instruction...can practice and generalize spelling patterns to improve spelling/phonics and vocabulary. \$3482

Project Based and Collaborative Learning - English/Language Arts, Math, Science, Social Studies, Bilingual/ESL/LOTE, Career and Technology, Advanced Academics, Fine Arts, K-4. 860 students.

Multiple teachers will have access to materials and can conduct different aspects of the project. All students in the school will be impacted and will use the materials. Students need hands on, project based, collaborative, and STEAM-based learning. Students from all backgrounds, interests, and skill levels can and will be impacted. Students will be challenged to problem-solve, work as a team, and think in different ways. We want to encourage design thinking, perseverance and develop 21st century skills. We want innovative learning resources and and engage with students in a new way. Students will also engage in activities through rotations throughout each school week, during before school clubs, during recess, and during class time. The possibilities are endless. We will keep materials in a centralized location in the school for optimal usage. \$2930

Keith Haring Stop Motion Animation - Fine Arts, K-4. 850 kids. Advanced technology lessons - basic figure drawing, complimentary colors, primary and secondary colors, action and movement, positive and negative space, line and shape patterns, and stop-motion animation, while exploring the art of Keith Haring. \$2187

Restorative Practice Resource - Kindergarten. English/Language Arts/Career and Technology, Social and Emotional Learning through green circles and restorative circles. QBall microphone amplifies the voice 2x for both teacher and students.

"Studies have shown that a child's cognitive auditory processing is not fully developed until age 15. In order to comprehend speech clearly, they need to hear at more than 2X the level of your average adult! The Qball helps ensure that everyone can be heard clearly, especially students who tend to be shy or soft spoken." This resource will empower students when practicing the life skill of speaking in front of an audience. It will provide management over learning to give one's undivided attention and good listening to the speaker. The students will be practicing speaking in complete sentences which is one of the Learning Standards/TEKS. Students will be participating in the Restorative Practice model, which is conducive to the district's Social Emotional Learning initiative daily. The Q Ball Microphone is a cost effective and appropriate way to provide these opportunities within the classroom setting. \$1050

Vocalization Skills - English/Language Arts, Math, Special Ed, PreK.

This LED light panel will be conducted by the teacher with EACH student. This panel will be used during one-on-one and/or group work. The pane will assist the non-verbal students become more verbal as they will receive immediate reinforcement for using their words. This panel will assist the more verbal students lenthen their sentences and work on sentence structure. As all students will use this panel it will assist ALL students become more independent and be able to increase their ability to self-advocate. \$2187.95