



2022 GRANT SYNOPSES

Interactive Computer Science Technology Enrichment Program | \$4,297.00

Aaron Guidry, Tomball High School
David Monroe, Tomball Memorial High

The Interactive Computer Science Technology Enrichment Program is designed to allow our students to exhibit the software that they write in new ways. By purchasing Raspberry Pis that can control Arcade Cabinets, we can have the student body experience computer science and gain interest in this field, while providing feedback about the two-dimensional interactive games our students create. By funding virtual reality headsets, we can have our upper level computer science students create 3D environments and get practice with critical skills in head and hand tracking for real-time stories, applications, and games. This grant would take our computer science program to the next level by incorporating interactive experiences that are educational, fun, and amazing while preparing our students for their future studies and careers

Critical Thinking Campus-wide Intervention | \$1,975.46

Elicia Moody, Tomball Star Academy

The goal of this innovative intervention is to simultaneously improve analytical and logical reasoning skills, reinforce numeracy, and boost attitudes toward math and problem-solving through KenKen puzzles. Getting our students to play with numbers also builds their math-confidence! The innovation is to implement a school-wide competition for which homeroom can complete the most (and the most difficult) KenKen puzzles each 9 weeks. All students (and teachers) will be taught how to solve the puzzles, then their reasoning and numeracy will improve as they gain experience and "level up!" Puzzles will also be available as class warmups or post-test desk activities in all classrooms

Improving Relevance Through Experience | \$2,100.00

Marissa Logrono/ Karen Smiddy / Timothy Cifelli / Mitchell Cate, Tomball Star Academy

As a science team, we would like to implement the use of Oculus Virtual Reality Experiences to allow students to make deeper and more relevant connections to science content. Virtual reality gives us the unique ability to bring science models to life, making them more interactive for students to practice a higher level of evaluative and predictive scientific questioning. The ability to ask and answer questions is the basic definition of science and we want to inspire students to see that they too can seek out the answers to their own questions. Oculus will allow us to take students through experiments that would otherwise be unsafe and let them manipulate variables that we couldn't otherwise control at this level



Read with the Stars Service Learning Project | \$1,950.00

Kelly Riley, Tomball Star Academy

Instead of just talking about the importance of community service, this grant will make it possible for our students to put action behind their words. High school students will participate in a service learning project to benefit an elementary school in our district. Books, manipulatives, and a QR code attached to a video reading will be bundled in a box to allow younger students to develop a love for reading while boosting their skills. Meanwhile, my students are practicing their speaking skills and earning a service learning endorsement through our community college

Audio/Visual Equipment for Podcasts and Live Announcements | \$2,685.00

Maggie Torres / Lauren Henson / Kelly Stahmer / Kelly Riley, Tomball Star Academy

This grant will provide our students with the opportunity to master core objectives by way of project-based learning in English Language Arts. With use of the audio/visual equipment provided by the Education Foundation, our students will encourage a positive culture through shared experience

Project-Based Learning Launchpad | \$2,850.00

Karen Smiddy, Tomball Star Academy

Enrich personalized learning in the science classroom with new options for student choice and dedicated classroom workspace and resources for project-based learning. Provide opportunities for students to engage in higher-level thinking by exploring authentic science questions, brainstorming and prototyping solutions, and showcasing their work for the community. The grant provides an opportunity to build a collaborative culture with students, teachers, community experts, parents and volunteers working together for student success

Engineers designing with 3Doodlers: Magic at their Fingertip | \$1,108.80

Regina Garceau, Tomball Junior High and Tomball High School

Imagine students using technology to create bridges or buildings or even some of the fastest airplanes that they could dream up. If students can dream it, they can create it with 3Doodlers, 3D printing pens. Perfectly capturing the power of the 3Doodler Start and Create pens allow students to bring their creations to life simply by drawing them in three dimensions. Imagination becomes reality



Engaging Emergent Bilinguals through Communicative Grammar | \$448.00

Jennifer Keogh, Creekside Park Junior High

The purpose of this grant is to provide Emerging Bilingual students with intentional and targeted grammar instruction in ELLA/Newcomer and EL Reading Lab classrooms. The proposed Grammar, Usage, and Mechanics program provides hands on grammar practice along with a student-driven, online learning experience that consists of videos, writing activities, and grammar games. Students will develop and grow their written and oral communication skills as they gain confidence in speaking, listening, reading, and writing.

Storybook Bridges to Bilingualism | \$450.00

Kristina Lozano, Creekside Park Junior High

"Storybook Bridges to Bilingualism" builds a classroom library of classic children's books in Spanish in order to create relevant learning experiences for beginning language learners. Students will have the opportunity to use familiar classics to expand vocabulary, fluency and decoding practices in the target language. The bilingual library for the Spanish 1 classrooms will allow students to begin the adventure to bilingualism with a relevant learning experience in an innovative way. Students will grow into global citizens as the books open the path to bilingualism and form a bridge between new and established language learning.

Osmos for Innovative Learning | \$4,526.00

Gayla Coward / Cyleen Davis / Melissa Bell / Janice Pace / Amy Schneider /Kristin Shockley, Timber Creek Elementary

Tangible learning tools bring out the best in students! Adding to our Osmo/iPad collection will allow equitable access across our grade level, allowing more students to enjoy the rich and creative learning experiences with fellow classmates during their technology stations. With Osmo, engagement happens organically, making it easy for students to WANT to practice essential skills and become successful. This form of technology does not isolate the learner from the outside world, but aims to bring the learners together and build interactive social intelligence.



Digital Pollinator Conservation Advocates | \$4,030.00

Victoria Hunsucker / Holly Steed, Creekside Forest Elementary

Be a pollinator advocate! Observe and create projects about pollinators in our thriving garden by utilizing an outdoor camera, connected app, and iPads. This project will support the use of technology in an innovative way, making digital access to the garden available from classrooms via an iPad app during the instructional school day. "We want those who come after us to inherit a world where the wild is still alive."

iPad Interactive Learning | \$814.00

Rebekah Ulicnik, Lakewood Elementary

Our class is getting ready for the future by building reading skills and math number sense using manipulatives and technology. They are building words and getting immediate feedback. They are able to compose various number sentences to hit a target number. The I-Pad and Osmo station is inspiring them to read their goals

Raising Readers Right From the Start | \$2,407.02

Alison Love, Wildwood Elementary

The goal of Raising Readers From the Start is to begin targeting our early elementary students, and families, through board books by partnering with parents and guardians. Students and families will be able to access board books through the school library, as well as during monthly family Raising Reader Nights. We will create a culture of reading in families and the community, ensuring that children have the tools they need to grow as readers.

Practice Makes Programmers: Using iPads to Prepare for the Future | \$3,949.88

Alison Love, Wildwood Elementary

This grant gives each student, pre-k through fourth grade, the opportunity to spend time each week critically thinking and problem solving while coding and programming, using 12 iPads provided by Tomball Education Foundation and technology resources the campus already owns. Students will design and complete challenges that inspire innovation and collaboration, targeting developing skills for 21st century career choices with Ozobots, Dash robots, Sphero, and more! Exposure on a regular basis to coding paired with critical thinking and problem solving is an exciting and collaborative way for Tomball ISD students to succeed



Digital Art - Stop Motion and More | \$4,344.00

Megan Weeks, Wildwood Elementary

Our grant allows students to utilize art technology such as stop motion in the elementary art classroom. Stop Motion Animation is fundamentally sound for fostering storytelling through creative problem solving, character development, and social emotional based learning. We intend to help our students become lifelong learners through the future of art and technology, and creative careers. Creative problem solving is a skill that all students need as they grow in this idea generation, and becoming proficient with these real-life skills and knowledge will help them in all core subjects, and their future endeavors

Unlocking Doors to the Heart and Mind | \$596.00

Cindy Hamilton, Willow Creek Elementary

Unlocking doors to the heart and mind of students through the use of multicultural puppets will provide representation for all students on campus. The versatility and flexibility of adding puppetry to the social emotional wellness of the lives of children will benefit them in their greater awareness of themselves and how they respond to the world around them

Forever Friends | \$3,326.00

Emily Adams, Northpointe Intermediate

We created a creed to help others understand our purpose: Tomball Wildcats include everyone. Our productive work makes lifelong friendships. We learn from each other, and value our uniqueness. While working with each other we are all growing socially, academically, and emotionally. We are Wildcats!, supports differentiation of student learning meeting their learning needs to their individual skills, interests, levels, and learning style

Coaching Teachers with Swivls | \$4,362.00

Samantha Wilson, Wildwood Elementary

Coaching Teachers with Swivls allows specialists to guide prekindergarten through fourth grade teachers through more effective coaching cycles by giving them a clear picture of reality. These devices allow for thorough recording of an entire classroom so a teacher can focus on what the students are learning. Without Swivls teachers have to rely on specialists to collect data on their classroom instruction, but with Swivls the teachers take ownership of creating their own goals for instructional improvement.



Voltera PCB Fabrication | \$4,924.93

Vanessa Coronado, Tomball Memorial High

Bringing digital electronic designs to life, TMHS STEM courses are using a Voltera V-One printed circuit board (PCB) printer. They are able to use 21st century skills to convert their computer created circuit designs to working 3D printed circuit boards. This technology is used in top schools and universities around the world and enables students to create unique and innovative solutions that meet the needs of 21st century products. Leaving behind theory and putting their designs to work, STEM students can now invent and innovate designs of their own creation.

Going Green and Growing Readers | \$4,815.00

Melissa O'Brien, Grand Lakes Junior High

Going Green and Growing Readers is a grant for five Samsung Galaxy Tab S7+ 12.4" 256GB with Wi-Fi and folio cases. This grant will help English Language Arts and Reading teachers to more effectively gather, share, and collaborate about real time data on student reading levels and in class data. By using these tablets, teachers will create less environmental waste, be able to more easily share information across campus, and collaborate to determine ways to improve student growth

Adaptive Outdoor Music and Movement | \$5,000.00

Sarah Wade, Decker Prairie Elementary

Current playground equipment is sorely lacking in terms of special education student needs, particularly play through music. In addition to other issues, special needs students do not have the ability to access the existing play structure due to the need to climb stairs. The desired equipment will greatly benefit all students by incorporating play through adaptive musical instruments. Studies have shown that play through music will help the child with pre-reading skills, math progress, vocabulary, gross motor skills, and physical, emotional and social development.