WE Grants Examples - High School

AmStud Reads
This program provides for a classroom library filled with books designed to appeal to the varied and diverse interests of learners identified as gifted. All students thrive when allowed to make choices about their own learning, and these books will provide opportunities for students to explore writing in all genres related to fields such as art, medicine, architecture, theater, engineering, music, dance, and physics - to name just a few. Ongoing, scheduled time will be provided in class to honor the value of reading deeply and widely.

Power Partners with Nature!
Power Partners with Nature is the chance for high school students to continue to research, configure, test, and construct alternative energy sources for electrical power. Their efforts and final products will transfer learning opportunities and teachable moments with WUSD elementary students seeing alternative energy in action. Students will see nature's ability to power lights, fans, computers, and more with solar and wind energy.

Built for Success
Built for Success sponsors professional luncheons, business site visits and classroom presentations by local business leaders related to specific careers and Applied Science degrees. The three methods of career exploration will target at-risk students with the aspiration of sparking interests toward specific in-demand employment areas. Built for Success will connect students with members of the Rotary, community colleges and employers with career fields of student interest. We build successful and motivated students!

Aquaponics
In a three part setup, bacteria, nitrogen-consuming plants, and fish are combined to create a unique aquaponics setup. The project combines nutrient cycling and food production to allow students to understand that all organisms produce waste, however, this waste must constantly be cycled to allow for the continued availability of nutrients. Students utilize a Problem Based Learning (PBL) model**.**

Lighting the Way
Recognizing the need for observation of DNA and further data analysis in future science careers, this project aims to bring current forensic science techniques into the biology classrooms. Students will have opportunities to conduct hands-on investigations to visually analyze bands of DNA and predict the size of DNA fragments using logarithmic functions. Students will use a combination of disciplines including science, technology, engineering, and math to develop creative thinking and problem-solving skills in real-world forensic science applications.

Venturing Into Verse Novels

In the continued effort to reach the reluctant reader at the high school level, we will envelop novels in verse, a novel told in verse rather than prose. Verse novels support the literary elements while giving teens a viable reading option for books that are not as overwhelming as other novel genres. Written with the music and imagery elements of poetry, these books will expose our students to character development and story structure found in the form of traditional novels.

The Traveling Learning Lab

The traveling learning lab is for kids who access the Special Education Resource program so that they have opportunities to experience multi-sensory educational programming offered throughout the metroplex. The most powerful and meaningful learning takes place in the real world environment and the traveling learning lab gives our non-typical learners in special education an opportunity to learn on their terms and plays to their learning strengths. Being non-typical learners, our SpEd students need a more hands on learning setting than what the traditional classroom is capable of providing and the field trips taken as part of the traveling learning lab program opens up those more kinesthetic teaching moments.

Pass the Scalpel!

Our goal as science educators is to develop in our students a passion for science and learning, but that cannot be done through lecture or worksheets. Instead, it is nurtured through hands on experience, and nowhere is that more evident than through the process of dissection! Help us bring back this highly valuable and otherwise rarely-experienced process that can help revitalize a true passion and appreciation for all life and science!

CSI Windsor

Students gain an understanding of the content we teach through lecture and related activities, but in order to develop a true passion and appreciation for the biological sciences, students need to experience real-world, relevant, and practical applications of the content. In the world of microbiology, nowhere is that application more engaging than within the world of forensics! With your help, we will create "CSI Windsor," where students will collect simulated "DNA" from teacher "suspects" from across our campus, and will run a DNA fingerprint through gel electrophoresis in order to identify a culprit and solve a crime!

Sp Prog 9-12

#Community Literacy Program

Our project called "#Community Literacy Program," is a literacy program designed to foster a love of reading within the entire school community. Our plan includes student and teacher facilitated book clubs which extend beyond the confines of the school day by using a unique twitter hashtag for insight and inquiry. This grant will allow us to purchase high interest reading materials, displays that would be placed throughout the school, incentives for master readers, and materials for a culminating activity-a parent showcase**.**