

Dear Excellence in Education Board,

Description

The purpose of this grant is to purchase materials to support adding a STEM related ACES rotation for the 6th grade team. Specifically, this grant seeks to purchase STEAM Classroom Robotics - Strawbees and Micro:Bit for students use in 6th grade ACES classrooms.

Benefits of Program

Teachers at Alder Creek Middle School are passionate about teaching science and supporting students experiencing what they are learning. Students' interest and mastery of concepts and skills is enhanced through hands-on learning experiences. The tools purchased through this grant would directly benefit students by allowing them hands-on opportunities to build with Strawbees and use the micro:bit pocket-sized computer to learn entry level coding. The combination of these two tools will allow students to bring life to their creations.

Success of Program

The success of the program will be measured by the students ability to demonstrate building and coding skills. Students will be able to build their own creations and add life to them through the computerized Micro:bit tools.

Implementation

These materials will be used in one of 6th grade ACES classrooms. Students will use them to learn about basic mechanical inventions beginning with a level 1 and moving through level 3 and finally level 4 with the integration of mechanical pieces using the Micro:bit and their coding knowledge. This will help them demonstrate a deeper level of understanding of both inventions and coding.

Can you share this grant with your grade level or subject team?

These materials were chosen to target the application of STEM in the 6th grade classroom. If another teacher would want to use them to support their standards or science lesson, I would be happy to share.

Sustainability

This project is a one time purchase. All materials are reusable from year to year. There may be a need for refill purchase, but I believe that I would be able to get those costs covered by my ACES budget.

A breakdown of what I would like to purchase for use in the 6th grade classes and beyond:

STEAM CLASSROOM ROBOTICS – MICRO:BIT - This bundle includes micro:bits. A bundle without micro:bits is also available.

- 1-year access to Strawbees Classroom for one teacher
- Full building & coding solution (micro:bits included)
- 100+ challenge cards
- Storage solution
- \$1,995.00

POCKETFUL OF IDEAS CARD DECK - Stimulate your imagination with story-based challenges!

- 100+ challenge cards
- Add-on for any kit
- 2 card deck types
- \$14.90

Shipping is FREE

Taxes for this purchase will be \$130.64

Seeking a total grant for the amount of \$2140.54

This video is a great example of what students can create with the Strawbee and Micro:bit kit. <https://youtu.be/nMYqIfqf7qo>

We would greatly appreciate your support with a grant for the above amount. Thank you so much for considering our request.

Please contact me directly with any questions.

Tina Kiewit
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6th Grade Math/Science