Holdenville Education Foundation
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Grants to Teachers Application Form

Please use a typewriter or word processor to complete the application.
Submit in the format listed below.

Danny Sipes

Date: March 24, 2019

Grant Title: Engineering is Elementary

School: Thomas Intermediate Elementary School

Grade Level(s): 3rd through 7th

Content Area: Math, Science, and Computer Science

Total Dollar Amount Requested: ~~$3,545.00~~ 1500

1. **What is the major educational need this grant addresses? Please give grade level and academic area.**

   The robotics program that Holdenville Schools currently offers serves 60 3rd through 7th grade students. I would like to extend the program to more students next year. Robotics is a program that teaches students how to engineer a robot. Once the robot is built, the students then learn how to code the robot using mathematical equations. These codes instruct the robot to perform certain tasks. The program also gives students an opportunity to experience the interworking of computer programming through the coding process.

   Robotics requires higher level thinking skills and challenges students beyond the regular classroom. The students have to work together as a team to build a robot and create codes, which enhances teamwork and social skills.

2. **Approximately how many pupils will be affected by this project, both directly and indirectly?**

   The program will directly affect 60 students. Twelve 3rd grade, twelve 4th grade, twelve 5th grade, twelve 6th grade, and twelve 7th grade students will be chosen to participate. The additional robots will be used to extend the program to students that have not had the opportunity to participate in the program that is offered after school. These robots will be used during the school day with other S.T.E.M. activities.

Students from 4th grade to 6th grade will have the opportunity to be exposed to the world of coding. Each year a new group of students will be added to the program.

3. **Describe your grant including methods, materials and objectives. Foundation grants are intended to fund a creative teaching plan, so if equipment or materials are requested it should be clearly stated as to why these are an integral part of the plan.**

   The robotics classroom is a cooperative learning environment. The students work together with guidance from the instructor. The four teams will watch a video of the challenge and formulate a plan on how to code the robot to complete the challenge. When they have completed each challenge they will move on to other challenges that increase in difficulty. Across the state of Oklahoma students have the opportunity to participate in Junior Botball competitions. There are various challenges to earn awards and trophies.

   The materials requested are four additional robots kits, and the registrations fee for team competitions. Four robot kits are needed to extend the program to future students. Registration fees are needed so students will have access to the Junior Botball curriculum and competitions.

4. **Give a time schedule of implementation.**

   The items listed below could be ordered as soon as funds are available. If items are ordered during the spring of 2019, the technology should be ready for use by teachers at the beginning of the 2019-2020 school year.

5. **Detail your budget request. Include specific information about kinds of materials and equipment needed, sources of supply, and costs (including shipping and handling). If possible, list alternatives if full funding is not available.**

Twenty 2019-2020 Junior Botball Registrations	$1,500.00
Four Junior Botball Challenge Robotic Kits	$2,000.00
Shipping	$45.00
Total	$3,545.00

6. **What methods will be used for measuring the stated objectives, or what definite evaluation will you make to determine whether the grant was successful? (Please be specific)**

   The success of the grant will be measured on the completion robotic challenges. Students will attend Junior Botball competitions and they will be completing challenges to receive awards and trophies.

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ESTIMATE

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ESTIMATE # 20135
DATE 03/25/2019

DATE	ACTIVITY	QTY	RATE	AMOUNT
03/25/2019	JBC Kit + 1yr Curriculum Access Camera not included	4	575.00	2,300.00
03/25/2019	Reg 2019 2018-2019 Junior Botball Registration	16	75.00	1,200.00

Total 4 kits and 20 team registration

TOTAL $3,500.00

Accepted By

Accepted Date