

Danny  
Sipes

If you have any questions or need further assistance, please contact Karen Anderson 405-379-3596 or karenab@plainsnet.net



Holdenville Education Foundation  
P.O. Box 641 ♦ Holdenville OK 74848  
[info@hef4ourkids.com](mailto:info@hef4ourkids.com)



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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.*

Date: March 20, 2017

Grant Title: Engineering is Elementary, My Dear Watson

School: Reed Elementary

Grade Level(s): 3<sup>rd</sup> and 4<sup>th</sup>

Content Area: Math, Science, and Computer Technology

Total Dollar Amount Requested: \$2,464.83

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 24 3<sup>rd</sup> and 4<sup>th</sup> grade students. I would like to extend the program to 5<sup>th</sup> grade for the 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 36 students. Twelve 3<sup>rd</sup> grade, twelve 4<sup>th</sup> grade and twelve 5<sup>th</sup> grade students will be chosen to participate. 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 5<sup>th</sup> grade 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 2017, the technology should be ready for use by teachers at the beginning of the 2017-2018 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.

Four 2016 Junior Botball Registrations	\$300.00
Four Junior Botball Challenge Robotic Kits	\$2,000.00
Shipping	\$45.00
One Tool Box to keep robot kits organized	\$119.83

Total	\$2,464.83
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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.

KISS Institute for Practical Robotics

botball@kipr.org www.botball.org  
(405) 579-4609 fax (405) 329-4664  
1818 W. Lindsey, Bldg. D, #100

## PRICE QUOTE

DATE	QUOTE NO.
3/20/2017	1164

NAME / ADDRESS
Holdenvill Public Schools 310 Grimes Holdenville, OK 74848

Request #	Bid #

ITEM	DESCRIPTION	QTY	COST	TOTAL
Reg 2017	2017 Junior Botball Registration	4	75.00	300.00
611 - JBC Kit -...	Junior Botball Challenge Robotic Kit Includes: Wallaby Controller, Camera, Adapter, Cable, JBC Surfaces (A and B), Metal parts, Wrenches, Motors, Sensors, Botguy Screw driver, Bag of Screws, Push Rivets and Starter LEGO bag.	4	500.00	2,000.00
S&H - Order	ALL JBC KITS ARE ON BACK ORDER UNTIL EARLY-MID MAY Shipping & Handling		45.00	45.00

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EAN	0709317308136		
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