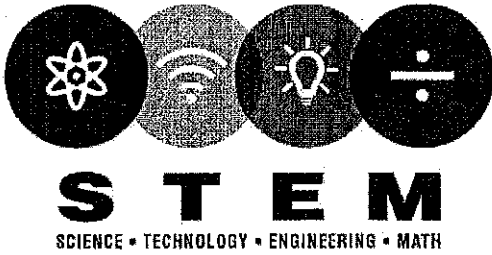


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Orange & Rockland STEM Classroom Grants
Cover Sheet and Application

MAY 30 2017

PORT JERVIS SCHOOL DISTRICT
SUPERINTENDENTS OFFICE
Deadline for 2017-2018 School Year: ~~March 30, 2017~~

This cover sheet must be attached to your application. Application may be sent electronically or by mail with supporting documentation to the email or mailing address below.

Name of applicant: Scott Reichert

Name of school/organization: Anna S Kuhl School Port Jervis City School District

Address of school/organization: Street 10 Route 209

City Port Jervis State NY County Orange Zip 12771

School/organization telephone: _____

Applicant's email address: sreichert@pjschools.org

Applicant's home telephone: 845-856-2090

Grade(s) and subject(s) taught: k,4-6 computer/technology

I understand that all grants and the amount awarded shall be at the discretion of Orange and Rockland Utilities, Inc. and its Education Advisory Council. I further understand that, in the event I am awarded a grant for the project described here, Orange and Rockland Utilities, Inc. shall have the right to supply others with a description of my project and the underlying concepts and idea. **Please attach a copy of your School or Organization's "Request for Taxpayer Identification Form" (IRS Form W-9) and 501(c)(3) determination letter or equivalent with this application. Failure to do so may disqualify your application.**

Applicant's Signature: Scott Reichert Digitally signed by Scott Reichert
DN: cn=Scott Reichert, o=Port Jervis City School District, ou=Anna S
Kuhl School, email=sreichert@pjschools.org, c=US
Date: 2017.03.29 09:12:18 -0400 Date: _____

Principal/Supervisor's Name: (Please Print) Brett Cancredi

Principal/Supervisor's Signature: Brett Cancredi Digitally signed by Brett Cancredi
Date: 2017.03.29 10:04:05 -0400 Date: _____

Please complete all sides of this application, attach documentation and email to fegerl@oru.com or mail to:

Orange & Rockland
One Blue Hill Plaza – 4th Floor
Pearl River, NY 10965
Attn: Linda Feger

Grade(s) and subject(s) taught: k,4-6 Computer and technology

The following format must be used to apply for the Orange & Rockland STEM Classroom Grants – Pilot Program. All sections must be completed. Failure to do so will disqualify your application.

Title of Project: Robot? Can You.....

1. Approximately how many students in your classroom will participate in this project: Approx.112

2. Please provide a brief summary of the classroom project and include the major objectives.

6th grade students will do research to learn what robotics can do and what jobs they can replace. For example robots are used at times to investigate bombs, collect tolls, and answer phones. Upon completing research on what robots can do students and the teacher will design open ended challenges for their robotic creation to solve. Some challenges may be Robot Can You ... "choose the red ball (toxic waste) from 3 choices: red ball, yellow ball, or green ball, followed by can you dispose of it properly?" Robot Can You... Deliver this package to a classroom? Robot Can You... Follow the Yellow Brick Road and sing the tune when traveling the path and then stop singing if you stray from the road? Students will be grouped together based on the challenge they want to solve. The group will work as a collaborative team designing and engineering a robot from the motors, parts and sensors available. Students will then work on solving the task they have chosen. To solve the task students will have to build, code and program the robot to preform the task with out the students touching their robot.

3. How will you evaluate achievement of your program objectives?

Students and teams will be evaluated in a variety of ways depending on the team and challenge chosen. All teams will be evaluated by a rubrics on the technical engineering of the robot- does it preform the task as directed, will the robot stay together as it preforms the task. Teams will also be evaluated on completing the challenge- did the robot do what you wanted it to do?
Teamwork and other aspects will be measured by some of the following as selected by the group.

1. Take pictures of important steps of their prototype or their final models.
2. Take pictures of the team working on something important.
3. Record a video explaining a problem they are facing and how they solved it.
4. Record a video explaining their investigation.
5. Write critical information and discoveries in a document.
6. Find supporting pictures on the Internet that help them design or solve the problem.
7. Take a screen captures of their coding program as they write and program the robot.
8. Write, draw, or sketch on paper and take a photo of robots and solutions.
9. Print the program used for the robot to use for solving the challenge.
10. Write a reflection on what you would do different if given the same challenge.
11. Use a real-time data log and calculate data sets used to solve the challenge.

4. Does the project incorporate matching funds? Yes No
Describe:

No matching funds

5. Itemize the expenditures needed to complete the project. Include information on the materials and equipment needed, supplier and cost. *Please be specific.*

2-Lego MindStorm Kit 390 dollars each Cost 780
1- Space Challenge kit Cost 220

6. What is the total amount of your request? (Maximum \$1,000)

\$ 1000