



Innovation Project Application

Library: Panama City Beach Public Library

Project Manager: Laura Laspee

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Name of Project: Full STE(A)M Ahead With LEGOS

Project Amount requested: \$2479.25

Scope of the Project:

Full STE(A)M Ahead With LEGOS project is designed to expand and enrich our weekly STE(A)M program with LEGO Education Kits which are designed to teach children through active participation with learning. Our purpose is to engage our children in the community with the library and create the next generation of innovators. We began to offer a weekly STE(A)M program in September 2017 and to date have presented 8 events with 160 attendees.

What need in the library/community will this project address?

STE(A)M is our children's future. According to the U.S. Department of Commerce, STE(A)M occupations are growing at 17%, while others are growing at 9.8%. STE(A)M careers are helping to solve today's problems and are fueling the nation's economy. Along with the schools in Bay County, the library is addressing the need for gender breaking roles with our women and minorities. The library must provide STE(A)m classes to bridge the gap between school and home for our children. The library will offer increased awareness and extracurricular STE(A)M based activities to all of our children including our home school children, migrant and homeless populations. By actively participating with LEGO Education Kits, children will learn by exploring to find solutions to the challenges our world provides.

Resources required:

LEGO Simple and Powered Machine Sets which teach Basic Science Concepts - \$169.95 each. 5 sets for 10 students \$849.75

LEGO Early Simple Machines Sets which teach Cause and Effect, Energy Exploration and Motion - \$149.95 each. 5 sets for 10 students \$749.75

LEGO Education WeDo2.0 Core Set which teach Intro to Robotics, Critical Thinking and Problem

Solving - \$175.95 each. 5 sets for 10 students \$879.75

Activities/Timeline (include estimated completion date):

Starting in January 2018 forward we will expand our weekly STE(A)M events to include LEGO Education Kits. We plan to use the kits in conjunction with the LEGO Education curriculum booklets which come with every kit purchased with teacher instructions on using the kits. The units are developed in collaboration with teachers and education experts to make learning fun, interesting, and motivating while adhering to the national core standards for science, technology, engineering, and math. With the LEGO Education Kits we will continue to grow and expand our STE(A)M based classes and see no end in sight to all of the possibilities these classes can create.

How will the library sustain this project?

With the popularity of our STE(A)M based classes, the library will play a significant role in our community. The public's involvement with our STE(AM) based classes has grown each week and are greatly supported. I believe our Library Foundation will be very interested in supporting this program, and with opportunities to present this in our community, we will see our Stakeholders and Community Partners offer financial support.

Library Director's signature: Robin Sladen Date: 10/30/17

Amy R. Cope Date: 10/30/17
Signature of agent, office, or board to whom the Director reports

For PLAN use only:

Approved _____ Not Approved _____

PLAN Executive Director _____