**Grant Application Form**

**Spring 2020**

(Please see Request for Proposals)

Please type.

Applicant: Katie Mills (with Heidi Neltner)

Grant Title: Engineering Kits

I grant the Fort Thomas Education Foundation, Inc., the right to use this proposal and the results of this project, if funded, for public information purposes or to help educate others.

Signature of Applicant \_\_Katie Mills \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: 1-15-20

***Please submit completed applications to FTEF (ftef@ftef.org) and your principal by***

***Monday, January 6th, 2020.***

* Submit Google Form online
* Receive confirmation email with this form
* Submit completed forms to Fort Thomas Education Foundation (ftef@ftef.org) and copy your building principal by 12/19/19.
* Superintendent review
* Fort Thomas Education Foundation’s Teacher Grant Committee review

**A. RATIONALE**

* What classroom/student need, problem, or opportunity does this project address?

Currently it is difficult to expose students to quality experiences with engineering because of a lack of materials. Sets like Picasso tiles (magna tiles) and the Rigamajig kits will allow students to experiment and tinker in a collaborative environment. The Makedo kit includes kid-safe cardboarding saws and nuts/bolts that allow for students to construct larger prototypes in a safer and easier way. Legos would be available for checkout by classroom teachers and supplement the makerspace lego collection.

* Is this a new initiative or an expansion of an existing project? New Existing project
* Is this an after-school or summer enrichment program? Yes No
* Approximately how many students will be affected by this project? K-5 at Johnson
* Have you applied for funding through other channels (example, PTO) before submitting request to the FTEF? Yes No (Heidi did submit this grant last year)

**B. PROJECT DESCRIPTION**

* What is the goal of this project? Please include specific desired outcomes and a general implementation schedule.

The goal of this project is to create a base of engineering type kits that will allow teachers greater opportunity to create STEM lessons where students can develop engineering skills in a hands-on way with durable materials that can be used over and over. Materials would be able to be used by K-5 students.

* Who will be involved in this project (please specify teachers, administrators, and/or central office staff)? What are their responsibilities?

These materials will can be used at every grade level for STEAM activities across a multitude of subject areas.

**C. EVALUATION**

* Describe specific means of evaluation for each objective as well as the goal of the project. Will outcomes be measured?

The Engineering Kits will align with the Science and Engineering standards for K-5.

**D. BUDGET**

* Will you consider accepting a partial grant if full funding is unavailable? How would you supplement or scale back the project? Yes No

Please provide a detailed budget for your project, including materials and equipment needed, sources, and costs. If your request includes an amount for stipends or ESS compensation for certified staff, include it here.

|  |  |  |
| --- | --- | --- |
| Item | Supplier | Budget Amount |
|  Makedo Classroom  |  <https://www.stemfinity.com/Engineering/Elementary-Engineering/Makedo-Classroom-Pack> |  $235 |
|  Rigamajig Basic Builder |  <https://rigamajig.com/shop/basic-builder> |  $4340.00 |
|  Rigamajig Simple Machines |  <https://rigamajig.com/shop/simple-machines> | $1675.00 |
|  2 sets Picasso Tiles (100 pc ea) |  [https://www.amazon.com/PicassoTiles-Construction-Inspirational-Recreational-Conventional/dp/B00AU56C5W/ref=sr\_1\_4?s=toys-and-games&ie=UTF8&qid=1548355541&sr=1-4&keywords=magna+tiles](https://www.amazon.com/PicassoTiles-Construction-Inspirational-Recreational-Conventional/dp/B00AU56C5W/ref%3Dsr_1_4?s=toys-and-games&ie=UTF8&qid=1548355541&sr=1-4&keywords=magna+tiles) |  $100 |
|  2 sets Lego Large Box (790 pc ea) |  [https://www.amazon.com/LEGO-Classic-Large-Creative-Brick/dp/B00NHQF6MG/ref=sr\_1\_8\_m?s=toys-and-games&ie=UTF8&qid=1548357346&sr=1-8&keywords=lego](https://www.amazon.com/LEGO-Classic-Large-Creative-Brick/dp/B00NHQF6MG/ref%3Dsr_1_8_m?s=toys-and-games&ie=UTF8&qid=1548357346&sr=1-8&keywords=lego) |  $96 |
|  Straws and Connectors - set of 800 |   [https://www.amazon.com/LARGE-Straws-Builders-Construction-Building/dp/B01JVJRHMO/ref=sr\_1\_4?s=toys-and-games&ie=UTF8&qid=1548355998&sr=1-4&keywords=straws+and+connectors](https://www.amazon.com/LARGE-Straws-Builders-Construction-Building/dp/B01JVJRHMO/ref%3Dsr_1_4?s=toys-and-games&ie=UTF8&qid=1548355998&sr=1-4&keywords=straws+and+connectors) |  $35 |
|   |   |   |
|   |   |   |
|   |  Total Request |  $6481.00 |
|   |   |   |

**E. ADDITIONAL INFORMATION**

* Any additional information that you feel will help in the decision-making process.

My daughter is now at Highlands Middle School, and has STEM for a whole quarter. As an elementary school, the creative, problem-solving, and hands-on process of STEAM and Engineering needs to fostered and nurtured, however, with our lack of materials at Johnson, I do not feel that we are meeting the Engineering standards as well as we could! This is a big push right now, and a need we need to address at Johnson.

I verify the information included is correct to the best of my knowledge.

\_\_\_Katie Mills \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_1-15-20\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature Date

**ACTIONS TAKEN BY REVIEW PROCESS**

Date received by Principal:

Recommended or Not Recommended

Comments:

Date Received by Superintendent:

Recommended or Not Recommended

Comments:

Date Received by FTEF Grant Committee:

Recommended or Not Recommended

Comments:

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Thank you for your submission. Your commitment to academic excellence is our most valuable resource. – *The Fort Thomas Education Foundation*