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Adjusted Allocation: 0.00

Remaining: -368,107.85
Applicants shall respond to the prompts or questions in the areas listed below in a narrative form.

A) APPLICANT INFORMATION - General Information, Experience and Capacity

1. Project Title: Streetsboro STEM

2. Executive summary: Provide an executive summary of your project proposal and which goal(s) in question 9 you seek to achieve. Please limit your responses to no more than three sentences.

3. Project Title:

4. Lead applicant primary contact: - Provide the following information:
   - First Name, Last Name of contact for lead applicant: Aireane Curtis
   - Organizational name of lead applicant: Director of Curriculum
   - Unique identifier (IRN/Fed Tax ID): 049239
   - Address of lead applicant: 9000 Kirby Lane Streetsboro, Ohio 44241
   - Phone Number of lead applicant: 330-826-4900 x1040
   - Email Address of lead applicant: acurtis@rockets.sparcc.org

5. Secondary applicant contact: - Provide the following information, if applicable:
   - First Name, Last Name of contact for secondary applicant: R. Michael Daubbaugh
   - Organizational name of secondary applicant: Superintendent
   - Unique identifier (IRN/Fed Tax ID): 049239
   - Address of secondary applicant: 9500 Kirby Lane Streetsboro, Ohio 44241
   - Phone number of secondary applicant: 330-826-4900 x1003
   - Email address of secondary applicant: mdaubbaugh@rockets.sparcc.org

6. List all other participating entities by name: Provide the following information for each additional participating entity, if applicable: Mention First Name, Last Name, Organizational Name, Unique Identifier (IRN/Fed Tax ID), Address, Phone Number, Email Address of Contact for All Secondary Applicants in the box below.

7. Partnership and consortia agreements and letters of support: - (Click on the link below to upload necessary documents).
   - If letters of support are for districts in academic or fiscal distress only. If school or district is in academic or fiscal distress and has a commission assigned, please include a resolution from the commission in support of the project.
   - If a partnership or consortium will be established, please include the signed Straight A Description of Nature of Partnership or Description of Nature of Consortium Agreement.
   - UploadGrantApplicationAttachment.aspx

8. Please provide a brief description of the team or individuals responsible for the implementation of this project including relevant experience in other innovative projects. You should also include descriptions and experiences of partnering entities.

   The director of curriculum, Aireane Curtis will be responsible for leading this grant. Aireane is the curriculum director and also in charge of all grants that flow through the CCIP (CCIP coordinator). She has been in this role in Streetsboro this year. However, she served as the CCIP coordinator for the Southeast Local Schools (Portage County) for three years as well. Also, Aireane assisted districts while in her role at the Cuyahoga County ESC when the Race to the Top grants originally rolled out. She worked with districts to plan their scope of work and help get them approved by ODE. Aireane is very organized part of the team that has great leadership skills and a rapport with staff members.

B) PROJECT DESCRIPTION - Overall description of project and alignment with Outcomes

9. Which of the stated Straight A Fund goals does the proposal aim to achieve? - (Check all that apply)
   - Student achievement
   - Spending reductions in the five-year fiscal forecast
   - Utilization of a greater share of resources in the classroom

10. Which of the following best describes the proposed project? - (Select one):
   - New - never before implemented
   - Existing and research-based - never implemented in your district or community school but proven successful in other educational environments
   - Mixed Concept - incorporates new and existing elements
   - Enhancing/Scale Up - elevating or expanding an effective program that is already implemented in your district, school, or consortia partnership

11. Describe the innovative project.

   The Streetsboro City Schools looks to utilize Straight A Funds to enhance our current STEM (Science, Technology, Engineering, and Mathematics) program. We currently offer two classes at our middle school and one at our high school. We also offer an after school club for students in the area of STEM. Our goal is to add additional classes at our middle and high schools as well as train our teachers in the elementary buildings to incorporate STEM into their daily teaching. This will be done through programs such as Project Lead The Way (PLTW). Currently, the two courses at our middle school and our high school course are PLTW courses. In addition, our fine arts teachers will be provided with training on how to incorporate STEM into their content areas (STEAM: Science, technology, engineering, the arts, mathematics). We will focus our attention for STEAM in grades 4-8 and then expand to other grades in the following years.

   12. Describe how it will meet the goal(s) selected above. If school/district receives school improvement funds/support, include a brief explanation of how this project will advance the improvement plan.

   Our district goals are to increase reading and mathematics skills of our students. By incorporating STEM into the everyday curriculum, students will see first hand how these areas are utilized in their everyday lives. Teachers will be provided professional development in multiple areas including content, the arts, technology usage, and differentiated instruction. This professional development will occur during June of 2014 as a summer academy for teachers in grades K-6. Teachers in our middle and high schools will be trained through a week long training as well in the summer of 2014 as set by PLTW. Through this professional development, surveys will be created and administered to all staff in pre and post training manners to gauge the growth of the teachers. Also, follow up surveys will be administered throughout the 2013-14 and 2014-15 academic years to show continued growth. In addition, principals data will be collected through formal and informal observations as they follow the OTES (Ohio Teacher Evaluation System) rubric to determine usage of teaching strategies and methods the teachers are using. Enrollment numbers in our STEM courses at the middle and high school buildings will be tracked to show increased attendance in the courses.

C) SUSTAINABILITY - Planning for ongoing funding of the project, cost breakdown

13. Financial Documentation - All applicants must enter or upload the following supporting information. Responses should refer to specific information in the financial documents when applicable:
   a. Enter a project budget
b. Upload the Straight A Financial Impact Template forecasting the expected changes to the five-year forecast resulting from implementation of this project. If applying as a consortium or partnership, please include the five-year forecasts of each school district, community school or STEM school member for review.

c. If subsection (b) is not applicable, please explain why, in addition to how the project will demonstrate sustainability and impact.

This grant will impact our five year forecast as we minimal amounts of dollars set aside for STEM in our budget. Even with the approval of this grant, we will not adjust those amounts as they can continue to be utilized for consumable supplies for the classrooms and therefore do not change the forecast.

14. What is the total cost for implementing the innovative project?

13. Describe the ongoing communication plan with the stakeholders as the project is implemented. (Stakeholders can include parents, community leaders, foundation support and businesses, as well as educational personnel in the affected entities.)

15. What are the expected savings that may result from the implementation of the innovative project?

16. Are there ongoing costs associated with the project after the term of the grant, this explanation should provide details on the cost reductions that will be made that are at least equal to the amount of new/recurring costs detailed above. If there are no new/recurring costs, explain in detail how this project will sustain itself beyond the life of the grant.

As a district, we realize that in order for this grant to be effective, we have to be committed to providing ongoing training and not just shut the door when the doors are closed. Our teachers will know it all after one year. That is why we are committing to providing funds for ongoing training for our teachers for several years after the grant dollars have run out. As our teachers are trained, we have the capability to continue the courses year after year. This is important so we can continue to provide effective training the courses and content. By providing training up front, we will continue with the professional development of our teachers after the grant timeline ends. We are committed as a district to set aside the funds needed to continue to help our teachers get better each year in this area.

We will hold our summer academy for our technology staff in June to prepare for the technology staff. The technology staff will participate in the summer academy to prepare for the upcoming school year.

Also, our middle and high school teachers will attend training for their specific courses in June and July of 2014.

17. Describe the expected changes to the instructional and/or organizational practices in your institution.

18. What is the total cost for implementing the innovative project?

19. Describe the expected changes to the instructional and/or organizational practices in your institution.

We plan to see a change in our teachers' courses. We expect to see more teachers incorporating science, technology, engineering and mathematics in their everyday teaching. We also expect the norm to become teachers incorporating multiple content areas into lessons. With additional training and professional development, we expect that teachers will see how they can incorporate STEM ideas into all areas of the curriculum and help us teach history to Spanish for music. At our middle and high schools we expect to see more students taking STEM courses and pursuing STEM fields for post secondary work based on the foundation that our elementary buildings are creating by teaching these concepts earlier to students and allowing our students to see real world connections at a young age.

20. Describe the rationale, research or past success that supports the innovative project and its impact on student achievement, spending reduction in the five-year fiscal forecast or utilization of a greater share of...
We have seen first hand an increase of our students thinking and problem solving skills in our STEM courses. As a district, we have a team that has been using the work of John Hattie’s “Visible Learning” book to look at what works in schools. From this research, we know there are some influences on achievement that can help students truly make learning visible. How our students process information and apply it depends on how they are taught the material. Based on Hattie’s research, we know the ‘hinge point’ that makes an influence statistically significant is when it hits .4. Based on this methodology, the ideas in STEM and STEAM truly support the idea of visible learning and having an impact on our students learning. Some of these influences include classroom discussion (.82), problem solving teaching (.61) and cooperative vs. competitive learning (.49) to name a few. As a district with students who are not on grade level, we know we must be selective in how we teach our most struggling learners to close the achievement gap. By providing STEM/STEAM and incorporating these influences into our classrooms, we look to close the achievement gap for our students in these content areas.

21. Is this project able to be replicated in other districts in Ohio?  
   | Yes | No |

22. If so, how?  
This project can be replicated in other districts in Ohio. We are proposing that other districts mirror a similar format that our district has utilized in rolling this out in manageable pieces. We first had the STEM Club at our middle school because we had students interested in exploring STEM through robotics. Because of the success of the STEM Club, we saw the opportunity to change our Tech Ed course into STEM through the PLTW curriculum. After a year of teaching STEM in the middle school, we began the high school course to continue STEM offerings for the incoming freshmen. This year we are adding a consulting group that is comprised of teachers, administrators, parents and community members who work in the STEM fields to help us focus on our needs and preparing our students. Next year, with the help of this grant, we will be adding two courses at our high school. The mathematics course will be taught by our teacher that we hired this year with STEM experience from a neighboring school and our science course by our teacher who holds a doctorate in science. Adding sixth grade to our middle school course offerings will be included as well as adding our kindergarten through fifth grade as a base to expose our students prior to entering the secondary grades. Also, districts who replicate this project must be willing to provide the needed professional development to their staff members to truly have a comprehensive project.

23. Describe the substantial value and lasting impact that the project hopes to achieve.  
We hope to have more students every year that enter post secondary institutions in the areas of STEM. In order to do this, we have to incorporate students at an early age to all areas of STEM/STEAM. By getting students hooked on these areas of study early, we build a foundation that is intentionally set to prepare our students for life beyond our four walls. Also, by laying this foundation at an early age, we allow for our students to experience many fields of study they may not be exposed to if not within our buildings, based on their home experiences. Because we are training our teachers first, we are putting the pieces into place to keep this program for years to come. Consumable items will need to be replaced from time to time but the meat of the process will be in place and be able to be used from year to year. As a district, we commit to providing professional development every year to our teachers and this will be one area we show a strong commitment to in order to keep our teachers current and up to date in the latest in STEM.

24. What are the specific benchmarks related to the fund goals identified in question 9 that the project aims to achieve in five years? Include any other anticipated outcomes of the project that you hope to achieve that may not be easily benchmarked.

- Student learning objectives (SLO’s) will be written and administered each year to track pre and post course content and knowledge gained.
- We are incorporating a consulting group this school year that will be utilized to help us keep our offerings focused not only on our students but also the STEM fields. This consulting group will be comprised of teachers, administrators, parents and community members working in the STEM fields. We will incorporate this group into our future planning as we expand our offerings at all grade levels. In addition, a team of teachers and administrators will meet quarterly to check the progress in our elementary grades and determine how to enhance the learning of teachers and students. The information gathered from this grant will be shared multiple ways. First, the district will create a page on our website for other districts, schools, and community members to utilize. This site will include our timeline, resources utilized, professional development offered to our staff and community members and helpful hints in order to carry this out in their own district. Also, our teachers will submit proposals to share at various conferences around the state including (but not limited) to PLTW conference, Title I conference, and eTech on what we did and how we are finding success.

25. Describe the plan to evaluate the impact of the concept, strategy or approaches used.

* Include the method by which progress toward short- and long-term objectives will be measured. (This section should include the types of data to be collected, the formative outputs and outcomes and the systems in place to track the program's progress).

* Include the method, process and/or procedure by which the program will modify or change the program plan if measured progress is insufficient to meet program objectives.

For professional development, pre and post surveys will be administered to teachers. District administrators will be collecting data through formal and informal observations using the OTES rubric to see the change in teaching strategies. Our guidance counselors will track students enrolled in STEM courses. In addition, we will survey students each year to determine the impact the courses are having on their learning and growth. Student learning objectives (SLO’s) will be written and administered each year to track pre and post course content and knowledge gained. We are incorporating a consulting group this school year that will be utilized to help us keep our offerings focused not only on our students but also the STEM fields. This consulting group will be comprised of teachers, administrators, parents and community members working in the STEM fields. We will incorporate this group into our future planning as we expand our offerings at all grade levels. In addition, a team of teachers and administrators will meet quarterly to check the progress in our elementary grades and determine how to enhance the learning of teachers and students. The information gathered from this grant will be shared multiple ways. First, the district will create a page on our website for other districts, schools, and community members to utilize. This site will include our timeline, resources utilized, professional development offered to our staff and community members and helpful hints in order to carry this out in their own district. Also, our teachers will submit proposals to share at various conferences around the state including (but not limited) to PLTW conference, Title I conference, and eTech on what we did and how we are finding success.

By virtue of applying for the Straight A Fund, all applicants agree to participate in the overall evaluation of the Straight A Fund for the duration of the evaluation timeframe. The Governing Board of the Straight A Fund reserves the right to conduct evaluation of the plan and request additional information in the form of data, surveys, interviews, focus groups, and any other related data to the legislature, governor, and other interested parties for an overall evaluation of the Straight A Fund.

PROGRAM ASSURANCES: I agree, on behalf of this applicant agency and/or all identified partners to abide by all assurances outlined in the Assurance section of the CCIP. In the box below, enter “I Accept” and indicate your name, title, agency/organization and today’s date.

I Accept  Aireane Curtis Director of Curriculum Streetsboro City Schools October 25, 2013