

Budget

Chesapeake Union Exempted Village (045294) - Lawrence County - 2014 - Straight A Fund - Rev 0 - Straight A Fund - Application Number (446)

U.S.A.S. Fund #:

[Plus/Minus Sheet \(opens new window\)](#)

Purpose Code	Object Code	Salaries 100	Retirement Fringe Benefits 200	Purchased Services 400	Supplies 500	Capital Outlay 600	Other 800	Total
Instruction		0.00	0.00	0.00	0.00	725,595.00	0.00	725,595.00
Support Services		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Governance/Admin		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prof Development		0.00	0.00	10,811.00	0.00	0.00	0.00	10,811.00
Family/Community		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Safety		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Facilities		0.00	0.00	0.00	0.00	18,746.00	0.00	18,746.00
Transportation		0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>		0.00	0.00	10,811.00	0.00	744,341.00	0.00	755,152.00
<b>Adjusted Allocation</b>								0.00
<b>Remaining</b>								-755,152.00

Application

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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: Augmentative Technology Initiative

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.

The Augmentative Technology Initiative (ATI) will meet the goal of student achievement by broadening learning methodologies, enriching understanding of topics, and engaging students in a collaborative learning environment. The initiative incorporates a technology that utilizes an endless amount of resources through the diverse multitude of web, cloud-based material, as well as all other digital content, and delivers it seamlessly amongst collaborators. By eliminating recurring costs spent on non-instructional technology and the energy savings from the replacement of outdated equipment, we can effectively distribute these funds to put technology where it belongs; in the hands of students.

1445 3. Total Students Impacted:

4. Lead applicant primary contact: - Provide the following information:

First Name, last Name of contact for lead applicant: Jerry McConnell

Organizational name of lead applicant: Superintendent of Schools

Unique Identifier (IRN/Fed Tax ID):

Address of lead applicant: 10183 County Road 1, Chesapeake, OH 45619

Phone Number of lead applicant: 740-867-3135

Email Address of lead applicant: jerry.mcconnell@peake.k12.oh.us

5. Secondary applicant contact: - Provide the following information, if applicable:

First Name, last Name of contact for secondary applicant: Larry Miller

Organizational name of secondary applicant: Director of Technology

Unique Identifier (IRN/Fed Tax ID):

Address of secondary applicant: 10183 County Road 1, Chesapeake, OH 45619

Phone number of secondary applicant: 740-867-1112

Email address of secondary applicant: larry.miller@peake.k12.oh.us

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.

N/A

7. Partnership and consortia agreements and letters of support: - (Click on the link below to upload necessary documents).

\* 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.

Jerry McConnell is the District Superintendent of Chesapeake Schools. He has 40 years of teaching and administrative experience. He has been involved in SchoolNet/eTech Ohio grants as well as numerous building projects. Sue Ann Dial is the District Treasurer. She has 23 years experience. During that time she has been responsible for reporting on Federal and State grants. Mrs. Dial has also been involved in various building projects and HB 264 renovations. Larry Miller is the Director of Technology for the Chesapeake Schools. He has 30 years of classroom and administrative experience. Larry has been involved with many grants over the years through SchoolNet/eTech Ohio Raising the Bar and others such as the Pace Setter Grant and Problem Based Learning. Jamie Shields is in her fifth year serving as the elementary principal. She has 17 years of classroom and administrative experience. Jamie has been involved with a few grants and grant types including teacher grants, environmental grants, and special funding grants. She is focused on student achievement and believes technology related programs which promote 21st century skills are vitally important to the future of education. Trisha Harris is the Assistant Principal for the Chesapeake Elementary School. She has taught in the classroom at the elementary level for 9 years. She spent 2 of those years as a Technology Integration Specialist. She has attended a number of technology trainings and workshops that she has helped her with her innovations in the classroom. Terry Kimball has been an educator for 25 years. Terry has been involved in teaching classroom technology and technology integration at Chesapeake High School. Tina Wilcox is a classroom teacher for the Chesapeake Schools. She has 22 years of seventh grade classroom teaching experience. Tina has taught social studies, classroom technology and is currently teaching seventh grade language arts.

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 researched-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.

Augment: To increase, to add to, to make more substantial. These are the ideas behind the Augmentative Technology Initiative. This initiative will give teachers better tools and access to deliver educational content to individual students. We have witnessed first hand the impact of putting technology in the hands of students through our pilot program that we conducted during the 2012-2013 school year. For this pilot each student was provided a netbook that they used for daily skills, reinforcement, and enrichment. Their enthusiasm to spend more time on task and their test scores were evidence of the effectiveness of this project. By introducing LearnPads into our classrooms it will allow for a more cohesive instructional environment. LearnPads are a tablet solution that runs on the android platform. They include three components, the tablet, the cloud based portal, and the content store. They will also integrate with our current Smart Boards making them even more effective in content delivery to the students. It was awarded "Best of" Technology and Classroom Innovation in the UK. This product is only available to schools and is not a consumer based product. Integrating these tools will allow all teachers to safely deliver unlimited, digital curriculum and instruction anywhere. By implementing The Augmentative Technology Initiative students will have advanced methods of instruction district wide. This will improve student achievement by allowing students to apply technology to practical situations using creative and critical analysis. This allows teachers to work as coaches to provide individualized and personal instruction to students with different learning styles. Through the use of this technology the district will strive to reach higher achievement scores annually.

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.

The Augmentative Technology Initiative will meet the goal of student achievement by giving students a customized learning environment, which will allow students a deeper understanding of topics. Using the nearly limitless resources made available through this initiative students will be able to not only be able to work independently but also in a broader collaborative environment. Using a real world

approach of creating a learning environment that better relates to today's learner will level the playing field for all students. It will provide more personalized learning environment for every student. This initiative will provide a more natural setting, for the way today's student learns thus allowing the student and teacher to prepare for jobs and careers that do not even exist today. By eliminating recurring costs spent on non-instructional technology and energy savings brought on by removing outdated equipment we can better utilize these funds to put the technology where it belongs: In the hands of students.

### 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 consortia 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.

N/A

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

755,151.56 \* Total project cost

\* Provide a brief narrative explanation of the overall budget. The narrative should include the source and amount of other funds that may be used to support this concept (e.g., Title I funding, RttT money, local funding, foundation support, etc.), and provide details on the cost of items included in the budget (i.e. staff counts and salary/benefits, equipment to be purchased and cost, etc.)

The Augmented Technology Initiative (ATI) project consists of three core parts: Interactive Learning Devices, Network Infrastructure, and Security. The core component of the ATI are the Leappad? interactive tablets. The ATI project consists of 1,450 tablets, 68 charging carts, cases, and professional development at a total investment of \$592,667.84. Network infrastructure is the next component that is required to meet the data throughput demands of the tablets. This consists of: 90 PowerConnect W-IAP105 Access Points at an investment of \$43,329.60, Cisco Catalyst 4500-E/2960S Gigabit switches and patch panels at a cost of \$88,367.92, and Cabling and termination of \$12,040.00. Finally, the security component involves the replacement of old ADT equipment which will result in a district savings of nearly \$13,000 yearly. The new centrally managed access and surveillance system will represent \$18,746.20 of the project cost, and will not require a yearly service fee.

15. What **new/recurring costs** of your innovative project will continue once the grant has expired? If there are no new/recurring costs, please explain why.

0.00 \* Specific amount of new/recurring cost (annual cost after project is implemented)

\* Narrative explanation/rationale: Provide details on the cost of items included in the budget (i.e. staff counts and salary/benefits, equipment to be purchased and cost, etc.). If there are no new/recurring costs, please explain why.

No new recurring costs are part of the Augmented Technology Initiative.

16. Are there **expected savings** that may result from the implementation of the innovative project?

31,469.32 \* Specific amount of expected savings (annual)

\* Narrative explanation/rationale: Provide details on the anticipated savings (i.e. staff counts and salary/benefits, equipment to be purchased and cost, etc.)

We will see a savings by putting tablets in the hands of every student and not replacing classroom workstations with the typical desktop computer. This savings are documented in question 17 and the energy savings are significant. Our labs that currently use the standard desktop computer will be replaced with virtual desktop devices. Going to these devices versus the standard desktop computer results into a 90% savings in energy costs. Also, a savings could be realized as more and more students participate in the Bring Your Own Device (BYOD) which will be encouraged especially with our older students. Replacing equipment that required a maintenance contract with equipment that can be operated and maintained by district personnel will also provide an annual savings.

17. Provide a brief explanation of how the project is self-sustaining. If there are 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.

By restructuring some of our infrastructure we can eliminate recurring costs spent on non-instructional technology. This will save the Chesapeake School District at least \$12,739 per year. By moving away from the basic student computer in the class room which costs \$136.08 per year in electricity we can save a significant amount of money on energy costs. Multiply this by 154 computers and the savings will be \$20,956.32 per year less \$2,226.00 to charge the 1400 tablets per year. For a net savings of \$18,730.32. Calculated Savings: Eliminating 154 student computers with cathode ray tube monitors and replacing them with 1450 tablets will result in a substantial savings in energy costs alone. Our older computers use 350(kWh) X 24 (hours per day) X 180 (School Days) = 1,512 kilowatt-hours 1,512 kilowatt-hours X \$0.09 (Utility Cost) = \$136.08 per year to run one computer \$136.08 X 154 pcs = \$20956.32 per year to run the old student computers. The new tablets operates on 4.9 (kWh) X 2 (hours per day to charge) X 180 (School Days) = 17.64 kilowatt-hours 17.64 Kilowatt-Hours X \$0.09 (Utility Cost) = \$1.59 per year to run one tablet \$1.59 X 1450 tablets = \$2,226.00. \$20,956.32 (Computer energy costs per year) - \$2,226.00 (New Tablet energy cost per year) = a NET savings of \$18,730.32 With the elimination of the recurring fees and reduction in energy costs the district will save \$31,469.32 per year to sustain this initiative. Also with the advance in the Augmentative Technology Initiative which includes a solid infrastructure we foresee students moving to the "Bring Your Own Device" or BYOD model yet free up additional money and resources.

### D) IMPLEMENTATION - Timeline, communication and contingency planning

18. Fill in the appropriate dates and an explanation of the timeline for the successful implementation of this project. In each explanation, be sure to briefly describe the largest barriers that could derail your concept or timeline for implementation and your plan to proactively mitigate such barriers. In addition, the narrative should list the stakeholders that will be engaged during that stage of the project and describe the communication that occurred as the application was developed.

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.)

\* Proposal Timeline Dates

Plan (MM/DD/YYYY): 01/13/2013

\* Narrative explanation

Pre-Phase 1 of the Augmentative Technology Initiative (ATI) began with a feasibility study, as well as a district wide pilot program. The pilot program was implemented and monitored between the project team, teachers, and administration. Goals were outlined, common core effectiveness was addressed, and pertinent changes to the initiative were noted. Data from this program was analyzed and reviewed by the ATI project team and any changes were revised and put into place for the initiative. Product evaluation was conducted by the IT staff, administration, and teachers as part of the assessment phase and adjustments to the initiative plan were officially drafted. Pre-phase 1 product evaluation utilized data from the pilot program to carefully select a technology solution that was cohesive to the initiative. Phase 1 of the Augmentative Technology Initiative will begin immediately upon funds becoming available to the district and the ordering process will begin promptly. However, should grant funding become delayed, the support staff will notify vendors of the delay and keep quotes updated to streamline the ordering process. There will be weekly administrative meetings to address any issues that may arise as well as to track the progress of the ATI project on a phase by phase basis. A timeline for the ATI has already been drafted and will be continually monitored by the project team to assure that the project adheres to the timeframe set forth by the project team. Problems that could arise due to product availability will be offset by phase overlapping that will occur during the implementation stages of the project. Phase 2 of the ATI will involve the inventorying and asset tagging of equipment as it becomes available. The IT staff, along with Treasurer, will monitor, inventory and tag each piece of equipment and communicate any inconsistencies that may occur. Any error in shipping or receiving will be handled by the support staff immediately to ensure that the project meets the deadlines that are outlined in the ATI timeline. An inventory master sheet will be maintained and updated daily by the project team and status updates will be provided on an as needed basis to contractors and support staff.

Implement (MM/DD/YYYY): 02/17/2014

\* Narrative explanation

Phase 3 will begin the implementation of all core infrastructure and switching equipment into the preexisting environment. The installation of core infrastructure components will be installed into all MDF and IDF wiring rack locations along side of existing network equipment. Any termination and configuration of new core equipment will be completed before services to existing equipment are handed-off. This will allow a seamless implementation of new core infrastructure without causing any service interruptions or network downtime. During phase 3 the core switching components will be preconfigured and verified operational before the handoff has occurred. Phase 4 of the ATI will involve all cabling runs of CAT6e Plenum from the designated locations that have been determined in the technical drawings and infrastructure overview. All cabling will be pulled to the MDF/IDFs and terminated to the equipment outlined in the ATI network infrastructure technical drawings. In order to limit classroom disruptions, the availability to classrooms and data closets will be addressed by allowing cable contractors after-hours access to the buildings under the supervision of the support team. Hours of operations will be communicated between project staff, building principles, and relevant personnel. All WiFi access points will be installed and mounted during this phase. APs will be wired and terminated to standard set forth in ATI technical drawings. It should also be noted that both phase 3 and phase 4 will allow for uninterrupted service and downtime and will also allow for phase overlapping. Phase 5 of the ATI will begin with the configuration of wireless access points (APs) and adhere to the industry standard for performance and security protocols. SSID and client access protocols will be configured and connectivity will be ensured for client devices. Quality of service (QoS) will be ensured through the use of WiFi heat maps which will illustrate proper AP coverage for wireless connected devices. Finally, bandwidth and cutover will be checked to insure that data rates and AP handoff meet the requirements of the ATI. During this phase of the initiative all Leappad devices will be configured to use the newly installed APs. This will be the responsibility of the IT support staff. Each device will be configured using Leappad's ease of use QR code configuration utility. Devices will be tested to ensure operability and proper functionality. Completion of Phase 3, 4, and 5 is anticipated by 05/17/2014. Phase 6 will involve the setup of the district wide

access control and surveillance system. Door Mag/Strike locks will be utilized for the main entrance of each building. New DVRs will be installed and preexisting cameras will be terminated to the new equipment. Uninterrupted power supplies (UPS), surge protectors will be installed with each DVR system, and network connectivity will be provided to DVRs from MDF/IDF locations. Existing services will not be interrupted during this portion of the installation phase. Weekly meetings of the ATI project team will address any issues that may arise as well as assure that timeline benchmarks are being met. Phase 7 consists of teacher in-service and staff training and Learnpad deployment. All Learnpad devices and carts will be delivered to their respective rooms and ready to use before professional development begins. Professional training will consist of two full days of professional training by a Learnpad specialist. Teachers and staff will learn about the basic functions of the Learnpad, classroom integration, utilization of common core lessons, dashboard functionality, and delivering interactive content. Evaluations as well as Q&A sessions will be held on a weekly basis. Data collected will be reported to the ATI project team for further analysis. It is anticipated that the final phase of the ATI will be co

Summative evaluation (MM/DD/YYYY): 09/15/2014

\* Narrative explanation

Phase 8 will begin the evaluation phase by the collection of data from teacher, student, and parent assessment. The ATI project team will be administering district-wide surveys aimed at the effectiveness, versatility in lesson engagement, utilization for common core, as well as overall receptiveness. After the data has been received, the ATI project team will meet to discuss the successes and/or any concerns that may arise. Collective think tanks will be created to inspire new teaching techniques that address relevant materials and common cores, and at the same time engaging students with collaborative and interactive content. The main premise of Phase 8 will be to evaluate the transition and implementation of this new hands-on learning environment. During the evaluation phase meetings and demonstrations may be held, for parents and students, on this new classroom technology as well as allow parents and students the ability to ask any questions they might have. Phase 9 of the Augmented Technology Initiative is the final student achievement analysis. The ATI project team will be analyzing student achievement throughout the course of the school year. Student achievement will be compared to the previous school year; improvements in common core will be noted, as well as overall achievement scores. Finally, changes to core areas, techniques, and initiative goals will be made based on the analysis of data collected throughout the year and improvements will remain continual and fluid.

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

Traditional educational practices no longer provide students with all the necessary skills for meeting the demands of the Common Core Curriculum. Today's educational setting must include strategies and tools to prepare students to meet rigorous academic standards, as well as challenges. The setting must engage students in activities that combine educational technology skills and relevant curricular content. In order to ensure that students perform at a level where they can meet the challenges of the Common Core Curriculum, the district will improve methods of accountability and reporting, capture, store, and share data for informed data driven decision making. Assist students to become intelligent consumers of information, effective manipulators of data, and intelligent informational analysts. The change in this practice will enhance avenues for collaboration among family members and the school community. It will make learning more interactive while enhancing the enjoyment of learning to increase the accessibility of technology to students, both at school and at home.

**E) SUBSTANTIAL IMPACT AND LASTING VALUE - Impact, evaluation and replication**

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 resources in the classroom.

We conducted a pilot program using a fourth grade teacher on a one-to-one classroom the last two years using netbooks. The students each had access to a netbook which they used for classwork, independent work and assessments. The experience was a positive one with 100% of her students passing the OAA in Reading both years and 100% passage the first year in Mathematics and 95% the second year in Mathematics. Both parents and students loved the program and feel their student's were much more engaged than in year's past. With the new push toward computer/device based assessments, project based learning that involves computer based research and the use of word processing to develop presentations, and technology based performance tasks that require students to maneuver through websites and applications to perform tasks, students must have a background and firm foundation in these areas in order to be successful.

21. Is this project able to be replicated in other districts in Ohio?

Yes

No

22. If so, how?

The Augmentative Technology Initiative will teach teachers how to integrate varied types of technologies and resources and organize them to make lessons that are rich in content. Not only will the teacher be able to deliver a lesson to the whole class but also to a single individual for intervention or another student for enrichment. The initiative will not only allow the teacher to share her information on her screen with students but will also allow students to share their work with the rest of the class via the smart board. The devices used in this initiative will pose less of a learning curve than when we first introduced computers in the middle 1990s because it is the same technology that our teachers and students use today on their iphones, smart phones, and tablet devices. Using a real world approach of creating a learning environment that better relates to today's learner will keep the student on task longer and allow him to gain more knowledge from the lesson. It will provide more personalized learning environment for every student. This initiative will provide a more natural setting, for the way today's student learn, thus allowing the student and teacher to prepare for jobs and careers that do not even exist today.

23. Describe the substantial value and lasting impact that the project hopes to achieve.

Technology has revolutionized the way we think, work, and play. Technology, when integrated into the curriculum, revolutionizes the learning process. More and more studies show that technology integration in the curriculum improves students' learning processes and outcomes. Teachers who recognize how the integration of technology can be used as problem-solving tools change the way they teach. They move from a behavioral approach to a more constructivist approach. Technology and interactive multimedia are more conducive to project-based learning. Students are engaged in their learning using these powerful tools, and can become creators and critics instead of just consumers.

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 Achievement will be monitored by test scores, teacher observations, and rubrics through out the school year. Administrators will be asked to note the use of technology during their planned "walk through" (for each teacher) during the course of the school year. Spending Reduction will be immediate with replacement of equipment that is tied to recurring costs and new contracts will not be entered into. Removing student computers will also have an immediate cost reduction by using less energy. With the Augmented Technology Initiative we will see the greatest collaboration of resources among teachers and students that we have ever witnessed. With the ability to share apps and internet resources this initiative will truly change the way we learn and the way we think about education.

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.

Providing professional development will be started in the summer of 2014 with informal meetings. In August before the school year starts we will have Tierney Brothers to provide training for all teachers to show them how to integrate the learnpad tablet, the cloud based management portal, and the content store. There will also be great significance on sharing of resources and how to use these resources in the classroom. The learnpads will be distributed to the teachers by the Information Technology staff before school starts. Learnpads will be assigned to the students by the classroom teachers. QR codes will be distributed to the teachers to allow the students to configure their own learnpad for use on our network and the internet. From their the teachers will be able to manage their set of class room tablets in the management system. Teachers will be provided an age appropriate rubrics to complete for each student and for the class as a whole to be returned to the administration office at the end of each nine weeks and at the end of the year so that we can evaluate what is working and if the expected outcomes are being met. Test scores will also be used to make modifications on the way we approach the use of the Augmentative Technology Initiative.

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 Jerry McConnell Superintendent Chesapeake Union Exempted Village School District 10/25/13