



Muskegon Area Intermediate School District
**TECHNOLOGY & SECURITY
ENHANCEMENT MILLAGE**

**TECHNOLOGY
HELPS:**



**STUDENTS
LEARN**



**TEACHERS
TEACH**



**KEEP
SCHOOLS
SAFE**

2016-17 District-Specific Annual Accountability Report

January 2018



Dear Citizens,

It has been about three and a half years since students began benefiting from the MAISD Technology & Security Enhancement Millage. Voters approved the millage to help teachers teach, students learn, and keep schools safe. Since then, our school districts have improved security, strengthened network infrastructures, added personal learning

devices, and trained teachers on how to integrate technology to optimize results.

Every day this increased access to technology in our schools is positively impacting education. More students are becoming self-directed learners, while teachers are finding it easier to tailor instruction to the specific needs of students. With Chromebooks and other personal learning devices, students more easily access just-in-time online resources, connect with experts, and view online tutorials. Students are becoming more active participants in their coursework as they conduct research online and create things like vocabulary reviews and customized online study guides. Teachers are able to use technology to do quick checks for understanding, and allow students to demonstrate their mastery through the creation of interactive slideshows, infographics, video stories, or other high-tech tools.

This year's annual District Specific Accountability Report highlights the results of the countywide millage in each of our local districts over the past three years. On behalf of our students, thank you for investing in safer, more high-tech schools. With your investment, our students are becoming better prepared for success in their future careers and/or college studies.

To ensure our ongoing success as a county, the MAISD remains committed to supporting our schools by offering affordable and high-quality professional development, instructional coaching support, and opportunities to collaborate and share best practices. We provide the leadership and resources needed to help schools transform learning through efficient use of millage funds. Please contact me at 231-767-7201 if you have any questions or comments about this report or the millage. Thank you for your support.

John Severson, Ph.D., Superintendent
Muskegon Area Intermediate School District

DURING THE 2016-17 SCHOOL YEAR, 12 LOCAL PUBLIC SCHOOL DISTRICTS SPENT FUNDS GENERATED BY THE MILLAGE THE FOLLOWING WAYS:



TECHNOLOGY
\$3,331,006.09



PROFESSIONAL DEVELOPMENT
\$84,283.34



SECURITY
\$1,052,334.89



TOTAL SPENT
\$4,467,624.32

TECHNOLOGY includes technology equipment (computers and other devices used in classrooms, labs, media centers, and offices), supplies and services, network infrastructure, and other services that are necessary to maintain technology.

PROFESSIONAL DEVELOPMENT includes training that specifically addresses the use of technology in the instructional process.

SECURITY includes expenses related to improving the safety and security of students, staff, district facilities and property.

UNSPENT FUNDS The Michigan Public School Accounting Manual requires local school districts to account for all proceeds and expenditures from this millage in a separate fund. Because of this, districts may carry unspent resources forward without any concern of funds being commingled. This allows a district to set aside resources for a larger future technology or security initiative rather than borrowing money.

Technology and Security Funding Through Countywide Millage

On February 25, 2014, voters in Muskegon County said YES to a one-mill property tax increase to improve technology and security within Muskegon County’s neighborhood public schools. Clearly voters agreed that today’s 21st Century students must have secure schools and strong technology skills in order to compete in our world-wide economy.

The MAISD Technology & Security Enhancement Millage is the first of its kind in Muskegon County. Although funds flow through the MAISD, school leaders and elected school boards of education have complete control and oversight of their expenditure. From 2014 through 2023, this funding will pay for:

- New and upgraded personal learning devices and software licensing fees
- Security upgrades, including added cameras and single, secure points of entry
- Expanded training and support for teachers
- Improved technical support
- Maintaining infrastructure to accommodate multiple learning devices
- Sustaining and maintaining current technology

Between July 1, 2016, and June 30, 2017, the Muskegon Area Intermediate School District received and distributed **\$4,221,882.24*** in tax revenues generated by the third of ten years of the Technology & Security Enhancement Millage.

2016-17 Funding Distributed by MAISD

Neighborhood Public School District	State Aid Membership	Percentage of Total Membership	Funds Distributed to Schools 2016-17
Fruitport	2,794.67	10.58%	\$446,885.78
Holton	856.17	3.24%	\$136,907.11
Mona Shores	3,842.28	14.55%	\$614,405.38
Montague	1,500.88	5.68%	\$240,000.40
Muskegon	4,183.09	15.84%	\$668,903.10
Muskegon Heights	760.98	2.88%	\$121,685.62
North Muskegon	1,034.43	3.92%	\$165,412.04
Oakridge	2,028.21	7.68%	\$324,323.87
Orchard View	2,406.99	9.12%	\$384,893.24
Ravenna	1,056.28	4.00%	\$168,905.99
Reeths-Puffer	3,802.75	14.40%	\$608,084.28
Whitehall	2,135.47	8.09%	\$341,475.44
TOTAL	26,402.20	100.00%	\$4,221,882.24*

* This amount does not include \$4,131.81 in delinquent tax revenue and interest. The MAISD paid this amount to districts on August 25, 2017.

Fruitport Community Schools 2016-17 TECHNOLOGY & SECURITY MILLAGE FUNDING



STUDENTS
2,795



2016-17 FUNDS
\$446,886

"I am ever so grateful to the community that voted to pass this initiative. It has improved the way I teach. Twenty-three years later, I feel like a new teacher, and that's a great feeling!"

Jacquelyn Ball, 6th Grade Language Arts Teacher

"Student learning has improved because the classroom environment is now more like the real world; a world where technology is right at our fingertips."

Michelle Renna, 6th Grade Language Arts Teacher

**2016-17
DOLLARS SPENT**



**TECHNOLOGY
\$355,341.45**



**PROFESSIONAL
DEVELOPMENT
\$5,262.89**



**SECURITY
\$187,355.32**



**TOTAL SPENT
\$547,959.66***

Three Year Summary of Success

Teachers at Fruitport Community Schools report that the consistent and continuous access to technology through the Technology and Security Millage has made all the difference in the world! Gone are the days of scheduling limited times in shared computer labs... instead students



have their own personal learning devices and demonstrate their learning by creating Padlets, videos, and Google Slideshows. Teachers report they are able to create more dynamic lessons, help students navigate various programs, collaborate together on solving various types of problems, and bring the outside world and current events quickly into the classroom. High school social studies teacher Sara Woycehoski said students in

her class are becoming more independent thinkers and problem solvers. Technology also allows her to give advanced students access to more in-depth learning or find a source to help reteach a concept if a student is struggling.

Students in Jacquelyn Ball's classroom use websites like Bookopolis to find a book, write reviews, and share with their classmates. "Now all students have access to technology and the robust programs that boost learning. This is making the playing field more even for all students and preparing them for the next

steps in life. The technology requires students to become more independent as they take more responsibility for their own learning as they send emails, check their own grades on PowerSchool, track and complete assignments online, and serve as peer reviewers for the work of other students," said Ms. Ball.

Students at Fruitport Community Schools are more engaged as teachers make learning more interesting using multi-dimensional tools like brief video clips and online quizzes. Students visit nonfiction sites like ReadWorks and ReadTheory that provide interesting nonfiction passages and pre- and post-tests. Reading data in the sixth grade is on a steady incline thanks to the use of these types of programs.

Students are safer online because of GoGuardian software paid for by the millage. Teachers have the ability to see all screens at all times and view user history and tabs students have opened and closed. They can even track students' online behaviors in the evenings when they are logged onto school accounts and alert parents to any concerns.

Empowering Individuals to Positively Impact Their World.



Fruitport Community Schools • www.fruitportschools.net



**Districts may use unspent funds or accelerate spending beyond the revenue received based on district needs to cover larger projects.*

Holton Public Schools 2016-17 TECHNOLOGY & SECURITY MILLAGE FUNDING

“Technology access and skills are a necessary part of preparing for next-generation jobs, and the technology millage has allowed Holton to offer more of these opportunities to all of our students.”

Andrew Haak, 7th/8th Grade Social Studies & Multimedia Teacher

“Our students, teachers, and schools have the latest technology, wireless access, security, and professional development to help improve student learning to Grow, Learn, Graduate and Succeed.”

Todd Peterson, Technology Director



**STUDENTS
856**



**2016-17 FUNDS
\$136,907**

**2016-17
DOLLARS SPENT**



**TECHNOLOGY
\$115,601.70**



**PROFESSIONAL
DEVELOPMENT
\$12,648.11**



**SECURITY
\$24,108.00**



**TOTAL SPENT
\$152,357.81***

Three Year Summary of Success

At Holton, the Technology and Security Millage has allowed the district to provide Chromebooks to all freshmen through seniors. Middle school students have access to Chromebook



carts while in class. Access to the latest technology has changed how the students perform their daily work. The technology has afforded students the opportunity to practice collaboration with fellow students and with their teachers. Assignments are turned in and graded digitally, eliminating lost homework and allowing for immediate feedback. Students are more



engaged in classroom activities and are able to access up-to-date research instantly.

Teachers at Holton are using Google Classroom to create digital activities and resources to share with students. Millage funds were also used to provide technology integration training to teachers so that they are using the technology in proven, effective ways with their students.

Holton has also invested in security software to monitor student use of the Chromebooks while at school in order to ensure they are being used for academic purposes. They have also installed a new security system with cameras and door locks.

**Rooted in Community,
Reaching for Excellence.**



Holton Public Schools • www.holtonschools.com

**Districts may use unspent funds or accelerate spending beyond the revenue received based on district needs to cover larger projects.*

Mona Shores Public Schools 2016-17 TECHNOLOGY & SECURITY MILLAGE FUNDING



STUDENTS
3,842



2016-17 FUNDS
\$614,405

“Our students are becoming better and more creative thinkers. They are becoming better at problem-solving, which, in turn, makes them more prepared for life. Students are acquiring the skills sought by employers – here is a task, use the skills taught to you to develop a solution or final product.”

Chris Johnson, High School English Teacher

“Students are leaving my class more able to think critically and solve problems. Because of the flipped classroom, students are becoming self-directed and able to teach themselves new concepts. This better prepares them for college and careers. I see a rising confidence level in my students as they master concepts.”

Heather Hall, High School Psychology Teacher

**2016-17
DOLLARS SPENT**



**TECHNOLOGY
\$828,350.88**



**PROFESSIONAL
DEVELOPMENT
\$54,083.50**



**SECURITY
\$26,770.00**



**TOTAL SPENT
\$909,204.38***

Three Year Summary of Success

The addition of new technology as a result of the Technology and Security Millage has created a future-ready learning environment at Mona Shores Public Schools. Students are able to work more independently and work to reinforce content they struggle with individually, while spending less time on content that they have already mastered. Having a Chromebook readily available 24/7



helps students prepare for college. It evens the playing field by giving students access to classroom material and instant access to research when they need it, at school or at home. Many students did not

have a computer at home to work on schoolwork. Now, they are able to review class lectures online, organize their notes digitally, make accurate citations, and collaborate and communicate with other students, even in the evenings and on weekends. Teachers are now able to provide continual, timely feedback on projects and assignments, so students no longer have to wait until the next class period to receive feedback. Knowing that they are on the right track with an assignment allows them to proceed with confidence in their work.

The technology has allowed some teachers to flip their classrooms, providing an online lecture that students watch at home, and then having classroom time to demonstrate concepts, receive clarification on their learning, and learn deeper concepts.

The Chromebooks provided to students give them the opportunity to work on projects and research in their free time during recess and at home. Cole, a current fourth grader, used his Chromebook as a third grader to propose offering an oatmeal breakfast bar at Campbell Elementary. He created a convincing Google Slideshow presentation and shared it with Principal Andrew Hogston. He was “blown away by the creativity and determination” exhibited in the presentation. He facilitated an opportunity for Cole to present his proposal to Mona Shores’ food service director. After his presentation, the food service director approved adding an oatmeal breakfast bar at Campbell.

In addition to technology specifically for student use, Mona Shores has been able to improve their infrastructure with upgraded wireless access points and network on the back end. This ensures premium online access for students and staff. New, secure entrances at all buildings have been added, and security camera systems have been updated and expanded. These measures have significantly increased the safety of all Mona Shores students.

Inspiring excellence, building character,
and impacting the future
through academics, arts, and athletics.



Mona Shores Public Schools • www.monashores.net



**Districts may use unspent funds or accelerate spending beyond the revenue received based on district needs to cover larger projects.*

Montague Area Public Schools 2016-17 TECHNOLOGY & SECURITY MILLAGE FUNDING



STUDENTS
1,501



2016-17 FUNDS
\$240,000

“The Technology and Security Millage has had a tremendous impact on my classroom. We have added robotics and coding to each grade level in our K-5 building. This gives my students many different opportunities to explore coding and robotics. We also purchased iPads, speakers, and tripods to make content creation more accessible for our younger students.”

Kristin Day-Hinken, *Computer Teacher*

“I absolutely love coding...it makes me think – majorly think! You could really build/make anything with the power of coding. One day I want to animate a show or a movie.”

Sofia, *7th Grade Student*

2016-17
DOLLARS SPENT



TECHNOLOGY
\$247,801.91



PROFESSIONAL
DEVELOPMENT
\$0.00**



SECURITY
\$176.17



TOTAL SPENT
\$247,978.08*

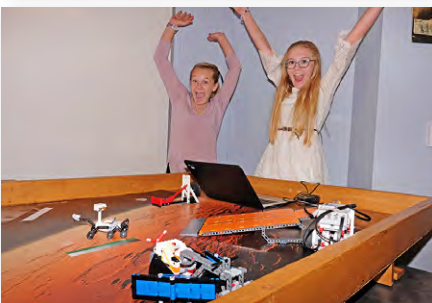
***paid out of separate funding sources*

Three Year Summary of Success

The Technology & Security Millage has had a positive impact on student learning at Montague Area Public Schools. The addition of improved technology has provided continued



growth to the district’s teaching and learning. Teachers are better able to customize their instruction based on student need while offering innovative teaching tools. Student interest is sparked through multiple problem-solving class activities in a learning environment that embraces technology in fresh new ways.



Students at Montague Area Public Schools now have access to more supports for their learning. Teachers report that they are encouraging students to dig deeper into

available resources, which improves the students’ capacity to learn. Before the millage, classrooms would have to wait their turn in the computer lab. Now that Chromebooks are in the classroom, students can be engaged in learning and research at any time, and it is enhancing what they are learning. Review activities, research, and assessment with instant feedback are available to students at any given time. Students seem to especially enjoy classes in robotics.

Montague’s facilities are safer due to the additional cameras that keep an eye on what used to be hidden in areas throughout the district. As a result of this advanced security, staff are able to identify distractions and address them promptly.

Education in the Right Direction.



**MONTAGUE AREA
PUBLIC SCHOOLS**
EDUCATION IN THE RIGHT DIRECTION



Montague Area Public Schools • www.mapsk12.org

**Districts may use unspent funds or accelerate spending beyond the revenue received based on district needs to cover larger projects.*

Muskegon Public Schools 2016-17 TECHNOLOGY & SECURITY MILLAGE FUNDING



STUDENTS
4,183



2016-17 FUNDS
\$668,903

“The millage funding has made a huge difference in the safety of our scholars and teachers. When a scholar feels safe at school, the more it helps ease his/her mind so that he/she can focus on learning and growing. Without all of these essential tools for our scholars, we would still be using a desktop computer/lab model, which isn’t best suited for preparing them for the future.”

Jerry Johnson,
Director of Instructional Technology

2016-17
DOLLARS SPENT



TECHNOLOGY
\$366,476.47



PROFESSIONAL
DEVELOPMENT
\$11,723.84



SECURITY
\$147,259.61



TOTAL SPENT
\$525,459.92*

Three Year Summary of Success

Without funds from the Technology and Security Millage, Muskegon Public Schools would not have been able to move forward with the expansion of technology in their classrooms. In every building, scholars now have access to a learning device. Before having more devices in each classroom, classes were able



to use the computer lab once a week for forty minutes. Now each scholar has a personal learning device and is able to research topics related to their current classwork. They take assessments in class instead of just during

their once-a-week lab time. This allows much more flexibility for the teacher in planning lessons and giving assessments when they fit with class content.

Muskegon offers a number of online tools for scholars to use to improve learning. These tools allow the scholars to focus on what they need as an individual, rather than working from a whole group teaching/learning situation. This individual work allows scholars to improve in the areas where they need the most assistance. Scholar learning targets are more easily managed and accessible. Having these tools right in the classroom affords teachers the opportunity to customize instruction to meet the needs and learning styles of ALL scholars. This helps to ensure that higher-order thinking skills are used and multiple intelligences are met.

Muskegon’s Moon School participated in a study that looked at attendance and the effects of higher scholar engagement as a result of new technology and blended learning strategies. They discovered that attendance improved over previous years once they brought in new teaching strategies, more devices and new tools. In addition to improved attendance, M-STEP data for the school showed improved scores in all academic areas. The staff at Moon attributes a good portion of this success to the new technology provided to their scholars through the millage.

At Muskegon High School, scholars used their Chromebooks to research elements from the periodic table. They designed a 3D tile representing the element they studied through a program called TinkerCAD. Their designs were then printed on a 3D printer.

All Muskegon Public Schools’ buildings are now equipped with security cameras and new secure entryways. Parents and visitors must be buzzed in and must enter through the main office. People can no longer just walk into the school buildings. The millage has also funded an extra layer of Internet filtering and safety which has been added in recent years for the Chromebooks used across the district.

**Strong Schools,
Stronger Communities.**

M MUSKEGON
Public Schools

Muskegon Public Schools • www.muskegonpublicschools.org



**Districts may use unspent funds or accelerate spending beyond the revenue received based on district needs to cover larger projects.*

Muskegon Heights Public School Academy System

2016-17 TECHNOLOGY & SECURITY MILLAGE FUNDING



STUDENTS
761



2016-17 FUNDS
\$121,686

“Being able to upgrade the phone system to communicate effectively with parents and other agencies was critical to safety. In addition, the phone system improvements have allowed increased communication and collaboration, an important part of our strategic plan. The Chromebook purchases for students and staff are supporting collaborative work and improved assessment of skill to allow for more targeted instruction to meet each student’s needs. We are thankful to be accessing these funds for our community and look forward to continued improvements in the areas of technology and safety.”

Rané Garcia,
Superintendent

2016-17
DOLLARS SPENT



TECHNOLOGY
\$55,344.00



PROFESSIONAL
DEVELOPMENT
\$0.00**



SECURITY
\$67,935.00

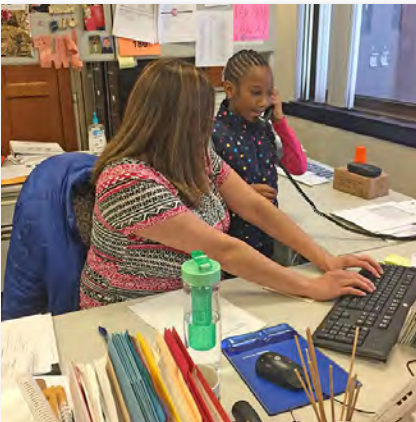


TOTAL SPENT
\$123,279.00*

***paid out of separate funding sources*

Successful Start

A change in state law in 2016 made this the first year that the Technology and Security Millage funds have been distributed to Muskegon Heights Public School Academy System. This is the only charter school to receive funding in the county because it is a district-wide neighborhood charter school. One of the most critical needs was the installation of a new phone system to improve communications and enhance student safety.



Building security has been significantly increased by having a fully-functioning system so that staff can more effectively

communicate with those in their buildings and with outside agencies and parents.

In addition to the phone system, Muskegon Heights has invested money in technology infrastructure and stability, as well as ongoing technical support. Chromebooks were purchased for teachers and students, thereby improving access to up-to-date research and online learning resources.

Teachers are able to integrate technology into their teaching now that they have updated devices and students have access to a device.

Grant funding had previously covered the cost of the creation of two model innovation classrooms at King Elementary School. The classrooms are equipped with a large display panel, touchscreen Chromebook, document camera and sound system. This system allows the teacher and students to add their voices and contribute to the classroom conversation. The sound systems support reading and writing instruction by all students being able to clearly hear the sounds being articulated while they learn what letter combinations represent which sounds and decode or record those specifics in their individual work. This technology will be installed in additional classrooms within the next year.

#TigerPride



Tradition. Tenacious. Triumphant.



Muskegon Heights Public School Academy System • www.mhtigers.org

**Districts may use unspent funds or accelerate spending beyond the revenue received based on district needs to cover larger projects.*

North Muskegon Public Schools 2016-17 TECHNOLOGY & SECURITY MILLAGE FUNDING



STUDENTS
1,034



2016-17 FUNDS
\$165,412

“The world of technology is constantly changing at a fast pace. As we prepare our students for the future, we must do more than provide the latest and greatest. Every day our staff members are using these tools, their creativity, knowledge, and experience to shape instruction in effective ways. With things like 3D printers and interactive touch screens, we can see the excitement of our students. They want to learn!”

Paul Henderson,
Technology Director

**2016-17
DOLLARS SPENT**



TECHNOLOGY
\$167,868.95



PROFESSIONAL
DEVELOPMENT
\$0.00**



SECURITY
\$0.00**



TOTAL SPENT
\$167,868.95*

***paid out of separate funding sources*

Three Year Summary of Success

North Muskegon students are now learning through new, high-tech tools that were simply not in our classrooms before voters approved the Technology and Security Millage in 2014. Math teachers report that the addition of three interactive



touch screens engages students as they connect mathematical calculations with corresponding graphs, view multiple screens showing related content, and access higher-quality information during class, and at home later through Google Classroom.

Students now benefit from an introductory robotics class using hardware purchased with millage funding and a new coding class at the high school.

Equipping students with personal learning devices is also a critical part of providing hands-on learning. All kindergarten through second grade students have access to Chromebooks and iPads for their center breakout sessions, while all third through twelfth graders are fully one-to-one (1:1), meaning each student has their own device. Technology Director Paul Henderson pointed out that with these devices come a plethora of high-quality software platforms, some of which require licensing fees the district could not afford prior to the millage. Compass

Learning, SpellingCity, Typing Club, Math Expressions, Scholastic, Vocabulary.com, and FastBridge each meet the diverse learning levels and needs of students at multiple grade levels.

“Students at the middle school are able to systematically track their vocabulary skills, play games that target areas they need to improve in, and set new personal goals – all of which is shared with their teacher through Vocabulary.com. This would not be possible without 1:1 Chromebooks,” said Jon Allen, Middle/High School Instructional Coach and Math Teacher.

Since the millage passed, North Muskegon has improved student safety by replacing old building door fobs/codes with updated proximity badges allowing the district to discontinue the practice of sharing a passcode to enter the building. Additional cameras have also been added both inside and outside of the building to remove “blind spots” and better secure the fieldhouse and surrounding areas.

**An Educational Community that gives
our BEST and expects the BEST!**



North Muskegon Public Schools • www.nmps.net

**Districts may use unspent funds or accelerate spending beyond the revenue received based on district needs to cover larger projects.*

Oakridge Public Schools 2016-17 TECHNOLOGY & SECURITY MILLAGE FUNDING



STUDENTS
2,028



2016-17 FUNDS
\$324,324

“Technology is a tool for learning. We do not become smarter because we use technology. We become better thinkers when we learn how to use technology. We live in a technical age, and we need to communicate in school the way we do in the real world.”

Erica Trowbridge,
*School Library Media Specialist & Technology Coach,
Middle/High School*

**2016-17
DOLLARS SPENT**



TECHNOLOGY
\$43,249.00



PROFESSIONAL
DEVELOPMENT
\$565.00



SECURITY
\$414,726.39



TOTAL SPENT
\$458,540.39*

Three Year Summary of Success

At Oakridge Public Schools the Technology and Security Millage funds are being used to transform teaching and learning by making it possible for teachers to vary content delivery based on student need and to use a variety of teaching methods and tools. This



makes learning engaging and motivates students to reach their highest potential.

At Oakridge every kindergarten student and all students in grades seven through 12 are issued a personal learning device. Kindergarteners use iPads to learn to read and master math facts. Sixth grade students make mystery podcasts, and 33 students in high school are taking an AP

(advanced placement) coding course. A Learning Management System (LMS) known as Schoology allows students, staff, and parents to create, manage, and share content and resources so the learning does not end when the school day does. This helps students who fall behind and allows students to move ahead. The middle/high school library hours were extended to give students an extra two hours a day to utilize WiFi, get help with their devices, collaborate with their peers, and provide a quiet place to study.

All K-12 staff have participated in training on technology-related topics and instructional technology curriculum and are supported by an instructional technology coach whose focus is to assist them in integrating technology into daily lesson plans.

Media Specialist Erica Trowbridge said now that every student has access to a Chromebook, teachers are able to create richer lessons with real-world connections, and students have greater opportunities to learn, create, and grow using well-known tech tools, others that are just being invented, and some that they are creating themselves. One sixth grade student is now taking a math class through Hope College and participating in other higher-level courses thanks to the availability of a Chromebook and instructors who were able to identify his unique needs and meet them with technology. Early College students are also benefiting from using their Chromebooks both at high school and at Muskegon Community College.

Since the millage passed, every building at Oakridge Public Schools now has a secure entrance with the main office serving as the only entry point for visitors. During this past year, two middle school classrooms were renovated to relocate the school's main office so that it could be the single point of entry for all visitors. The former office was down the hallway from the main entrance, allowing visitors access to the entire building without going through a secure checkpoint. Without the millage this would not have been possible.

Every student, safe and healthy,
college and workplace prepared.



OAKRIDGE

Oakridge Public Schools • www.oakridgeschools.org



**Districts may use unspent funds or accelerate spending beyond the revenue received based on district needs to cover larger projects.*

Orchard View Schools 2016-17 TECHNOLOGY & SECURITY MILLAGE FUNDING



STUDENTS
2,407



2016-17 FUNDS
\$384,893

“Chromebooks allow us to provide hands-on learning experiences to our students as they are used for computer programming, programming robots, solving online math problems, learning to use various business applications and by providing students with online learning and communication experiences. It has also provided safer schools with our buzzer systems and cameras to ensure office staff are aware of all those entering our buildings.”

Ryan Wilson, 8th Grade Math & Robotics Teacher

“We are moving toward having students work at a pace that fits for them and matches their abilities while still pressing them to challenge themselves.”

Terra Gerrans, 7th Grade Social Studies Teacher

**2016-17
DOLLARS SPENT**



**TECHNOLOGY
\$248,753.42**



**PROFESSIONAL
DEVELOPMENT
\$0.00****



**SECURITY
\$112,127.40**



**TOTAL SPENT
\$360,880.82***

***paid out of separate funding sources*

Three Year Summary of Success

At Orchard View learning has become more individualized and interactive since the passage of the Technology and Security Millage in 2014. All Orchard View students now enjoy



additional classroom sets of Chromebooks and a Chromebook lab at the elementary. The school is in the process of installing Smartboards in some classrooms to allow students to learn through interacting with large, touch-sensitive screens. Cardinal Elementary is in the process of automating its library as well.



Students are able to work at a pace comfortable for their learning, are more engaged, and are

more interested in learning, thanks to the availability of more devices. Students' critical thinking skills have improved, and they are excited to find answers!

Teachers report that technology enhances learning at every learning level and helps better meet the needs of students with disabilities. The district can now provide the technology needed to help students who formerly struggled to overcome barriers in areas like reading and writing. Visual and auditory learners have benefited from the one-on-one they get from computer programs created to fit their needs.

The use of Chromebooks and the teaching of keyboarding and research skills are truly helping students prepare for the jobs of the future. They are more independent in their learning and are more engaged and willing to revise and edit their work using Chromebooks.

Safety at Orchard View has been improved by updating and adding security cameras, as well as adding buzzer systems to main entrance doors.

Discover. Learn. Succeed.



Orchard View Schools • www.orchardview.org

**Districts may use unspent funds or accelerate spending beyond the revenue received based on district needs to cover larger projects.*

Ravenna Public Schools
2016-17 TECHNOLOGY & SECURITY MILLAGE FUNDING

“Our NWEA (national assessment) scores have continued to rise four years in a row. I attribute most of that to the teaching ability of our staff, however the technology has allowed the teachers to make more accommodations and enhance the learning of students.”



**STUDENTS
1,056**



**2016-17 FUNDS
\$168,906**

Randy Creed,
Beechnau Elementary Principal

**2016-17
DOLLARS SPENT**



**TECHNOLOGY
\$171,529.56**



**PROFESSIONAL
DEVELOPMENT
\$0.00****



**SECURITY
\$0.00****



**TOTAL SPENT
\$171,529.56***

***paid out of separate funding sources*

Three Year Summary of Success

The passage of the 2014 Technology and Security Millage came at the perfect time for Ravenna Public Schools. With their newly-built one-to-one (1:1) learning environment in full



swing, the millage dollars provided the financial stability needed to sustain and replace personal learning devices. Software and licensing fees, the addition of more security cameras, alarms and controlled entries, and the replacement and repair of devices have all been funded through millage dollars.



Students in Ravenna Public Schools are able to work, research, and collaborate on many assignments and activities in school buildings that are safer for all. Kindergarten, first, and second grade classrooms

currently have sets of six to 13 iPads per classroom, and these numbers continue to grow. In third and fourth grades all students are currently one-to-one, meaning one personal learning device for each student. These devices make it possible for teachers to assist the struggling learner, the advanced learner, and all those in between.

The millage has changed how students learn as they are now able to work at their own pace and have access to unlimited practice using multiple subscription-based learning sites that include IXL, Scootpad, Learning Farm, Lexia, and Seesaw, to name a few. In addition to the extended learning that is taking place, students are assessed using iPads in their classrooms under a much more comfortable and controlled environment than in the past.

Planted in Promise, Growing in Pride.



Ravenna Public Schools • www.ravennaschools.org

**Districts may use unspent funds or accelerate spending beyond the revenue received based on district needs to cover larger projects.*

Reeths-Puffer Schools 2016-17 TECHNOLOGY & SECURITY MILLAGE FUNDING



STUDENTS
3,803



2016-17 FUNDS
\$608,084

“The technology has been a game-changer in my classroom. It allows me to split students into several groups more easily so that I can work with students more individually while keeping all students engaged. It has also allowed the students to access programs that deepen their understanding of key mathematical ideas, to form and test conjectures about mathematics, and to receive immediate feedback about the validity of their conjectures. Students are also able to engage in online activities that truly deepen their understanding of the content.”

Julie Grinwis,
Reeths-Puffer High School
Algebra Teacher

2016-17
DOLLARS SPENT



TECHNOLOGY
\$399,522.00



PROFESSIONAL
DEVELOPMENT
\$0.00**



SECURITY
\$65,235.00



TOTAL SPENT
\$464,757.00*

***paid out of separate funding sources*

Three Year Summary of Success

As a result of the Technology and Security Millage, teachers at Reeths-Puffer Schools report that students are learning to perform in-depth research, prove the credibility of their sources, work independently, and collaborate on projects through the use of classroom sets of Chromebooks. Student learning is more differentiated and tailored to the individual needs of each student as a result of increased access to devices through the millage funding. They are able to work ahead with online practice resources and assignments instead of waiting until all students have mastered the content.



Students are beginning to see themselves as lifelong learners and are taking more control over their own learning. Those who need additional

assistance with a particular topic have a variety of supports available to them through the use of technology. Supports can include audio versions of stories or novels, additional practice sites, online bookmarking and note taking, and instant word definition. Teachers report they are able to achieve 100% engagement with the readily-available devices in each classroom, and students are better prepared for assessments because they are able to check their learning and gain added practice online before the actual test.

One student's story involved the need to retake a high school course he had failed. He found the class to be way more interesting his second time through due to the new use of technology provided by millage funding. The student was able to take advantage of additional help and practice that was not available to him before the millage. He enjoyed the class, learned a lot, turned in completed homework and essays on time and succeeded!

Reeths-Puffer's school buildings are more secure due to the millage funding. Improvements over the past three years include a new, secure entrance at the high school and installation of "The Boot" safety system for all classrooms throughout the district. The district's intercom systems have been upgraded, along with visual alert and keyless entry system updates and AED (Automated External Defibrillator) updates in every building. The district has also invested money into updating their network and its security to meet the demands of the growing number of student devices.

A Great Place to Learn,
Contribute and Compete.



Reeths-Puffer Schools • www.reeths-puffer.org

**Districts may use unspent funds or accelerate spending beyond the revenue received based on district needs to cover larger projects.*

Whitehall District Schools 2016-17 TECHNOLOGY & SECURITY MILLAGE FUNDING



STUDENTS
2,135



2016-17 FUNDS
\$341,475

“The millage has afforded us endless opportunities for our students. It has made it possible to offer such classes and programs as Shark Tank, coding, robotics and game design to our students. It has allowed students to make school work relevant to them, while giving them real-world experience to better prepare them for the future. My students are currently designing product ideas for our Shark Tank class. Once the products are designed and the research and development completed, they will have the opportunity to present their research to the class, as well as community members.”

Ashlyn Silverthorn,
*Whitehall Middle School Design
and Innovation Teacher*

**2016-17
DOLLARS SPENT**



TECHNOLOGY
\$331,166.75



**PROFESSIONAL
DEVELOPMENT**
\$0.00**



SECURITY
\$6,642.00

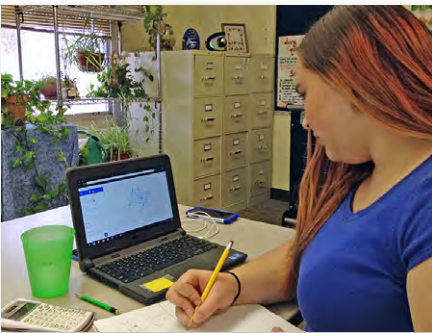


TOTAL SPENT
\$337,808.75*

***paid out of separate funding sources*

Three Year Summary of Success

The Technology and Security Millage has provided the opportunity for Whitehall District Schools to start and



maintain a one-to-one (1:1) Chromebook initiative. This means one personal learning device per student. Currently, all third through eighth grade students have a device available to them throughout the school day. School staff members indicate that the 1:1 initiative has definitely had an impact on how teachers teach, and they believe that the initiative has also helped to increase the district's M-STEP



scores. Instruction has been redesigned to take full advantage of the technology in the classroom. In addition, Whitehall employs technology coaches to work with teachers on best

practices for using technology in the classroom and designing their curriculum to integrate the available technology.

Technology in the classroom today provides students and staff with an opportunity to collaborate on projects and share their research. Jennifer Jura, Whitehall High School Annex Math and Science teacher, has seen substantial increases in collaboration among both staff and students as a result of their 1:1 initiative. “The power of online collaboration has allowed educators to push education outside of their classroom walls to make it accessible anywhere. Students can be partners on a group assignment, yet each be working on a single document from different classrooms or even from their homes in the evening.”

Imagine. Focus. Believe.



Whitehall District Schools • www.whitehallschools.net



**Districts may use unspent funds or accelerate spending beyond the revenue received based on district needs to cover larger projects.*



Muskegon Area
Intermediate School District
630 Harvey Street
Muskegon, Michigan 49442-2398
Phone 231-777-2637 Fax 231.773.1028
www.muskegonisd.org

