

2014-15 Technology Grant Recipients

This school year marks the second that Hillsboro School District has invested in a technology mini-grant program to stimulate teacher innovation in the classroom. Thirty-eight grants of approximately \$5,000 each were awarded, for a total investment of nearly \$200,000. Below is a recap of projects that received funding.

Brookwood Elementary School

Project Title: eReader

Staff: Maggie Richardson

Investing in eBooks will provide opportunities for students to interact with high-interest text. Students will investigate word meanings, listen to audio of challenging reading material, highlight text and take notes. Students will also respond to comprehension questions created by teachers as they read, partner-read nonfiction text in a vocabulary-rich and interactive way. These tools and approaches are utilized in a learning environment in a variety of ways and now with eBooks on iPad devices, these tools can be thoughtfully prepared in a streamlined package for students to use individually, in small groups, or as a class.

Brown Middle School

Project Title: Social Science Analysis – Reading and Writing in the Social Studies Classroom

Staff: Mark Striplin

Students in Social Studies classrooms have a unique opportunity to bring their learning alive in many different ways. When we talk about history we are really talking about a story of our past. Students learning this story can take the unique events from our past, examine the controversies we have been and are going through, and express their learning in a myriad of ways. I believe iPads give students ways to research rich text and multimedia resources as well as express their learning in a way that brings about intrinsic motivation and creativity while simultaneously showing student learning.

Butternut Creek Elementary School

Project Title: Integrating Technology for Information Text

Staff: Kim Asanovic

With this grant, I will be able to put technology in the hands of underserved student to enhance their conceptual understanding and improve their vocabulary. Using technology will engage students in the learning process and enhance their retention and overall comprehension.

Project Title: Using iPads for Literary Text

Staff: Kristin Ferguson

Using iPads and applications will allow me to create a limitless collection of literature that our current school, and my personal library, is unable to accommodate. Students will be able to compare and contrast stories within the same genre as well as compare and contrast author's purpose.

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Project Title: Accessing Common Core ELA Standards with Raz-Kids!

Staff: Lori Cronan

The Special Education Department at Butternut Creek would like to create bridges to leveled literacy by using a subscription to Raz-Kids.com. Raz-Kids.com is an interactive reading website where students can get access to thousands of online books at 27 levels of reading difficulty. Students will have access to resources enabling them to gain confidence and advance from level to level. Teachers can create assignments and monitor progress while helping all students work towards meeting Common Core's ELA standards.

Century High School

Project Title: Chromebooks for Improved Reading Comprehension and Writing Skills in High School

Staff: Diana Killeen

The Common Core State Standards expect students to comprehend literary and informational text at grade level, use technology to conduct research projects, to collaborate on shared writing projects, and to produce and publish writing. Students are also expected to demonstrate their individual writing process, including revision, rewriting, and editing their own work. To really accomplish these goals, technology should be incorporated into the Language Arts classroom on a consistent and frequent basis.

Project Title: Marketing Lab POS Systems

Staff: Raya Nichols

The goal of this application is to update to a modern iPad based Point of Sale (POS) system for students working in our Marketing Lab (student store). This tool would allow our students to engage with customers professionally as well as develop the skills for cash/credit card management that they will encounter in other retail environments.

Eastwood Elementary School

Project Title: Bridging the Technological Skill Gap

Staff: Aliceson Brandt

Students will use iPads through individual, small group and whole class lessons giving students access to literary and informative text, language rich websites, comprehensible input, and applications. This access to 21st century tools will support literacy and math standards while helping students achieve high academic expectations of the Common Core State Standards.

Evergreen Middle School

Project Title: Leading with Technology to Strengthen School Community

Staff: Sarah Liddell

Through a 21st century classroom and curriculum, students will conceive, present, and direct various aspects of student leadership. Employing the standards of digital citizenship and new technological expertise, our diverse student leaders will better connect to and know their school community, evaluate and record data to inform their decision making, and collaboratively create ways to lead the student body towards a stronger school community.

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Project Title: Using the compound microscope with a USB digital camera to increase student's knowledge of Basic Cellular Biology

Staff: Bonnie Wakeman

7th grade students are introduced to the world of cellular biology using the microscope, sometimes for the first time, to discover the world of microbiology. A significant number of students have difficulty looking through the ocular lens, identifying what they are supposed to be looking at or drawing what they see. The microscope and a current school computer will avoid all of the difficulties: there is the computer display, the ability to communicate by directly pointing at what they see, and using the software to take a picture using that instead of having to draw the image.

Project Title: Visual Journeys: Paving the Way to Math Through Technology

Staff: Josiah Cotton

Now that many students with math IEP's are pushed into the classroom, it is important to teach math in a visual way. Through the use of an application called NearPod, teachers would download or create interactive multimedia presentations. Through the app, the teacher would share the presentation with the other devices and control the students' activity in real time. Students interact and submit responses through the iPad app. Teachers can monitor and measure student on an individual and aggregate basis.

Farmington View

Project Title: Creating Digital Books in the Primary Classroom

Staff: Mallory Cruickshank

I plan to integrate iPads as a tool for students to use as part of the writing process. Once students have planned, drafted, revised and edited their piece, they will be introduced to a new and exciting way to publish. Students will be guided through the publishing process using the Book Creator application on an iPad. Students will be shown how to add text, graphics, illustrations, and record narration in their own voice. This project will increase student engagement and motivation during reading and writing, as well as provide continued growth for those students who already have had exposure to technology. It will also encourage collaboration during group research projects as students work together to compile and create digital books. Students will have the opportunity to communicate their learning with peers, family and the community by uploading their digital books to iPads throughout the school, as well as the school website.

Project Title: Next Generation Writers

Staff: Jill Butcher

Fourth grade students will be able to develop their reading, writing, research, and technology skills to create nonfiction books on NGSS topics on iPads. These books will be available for first and second grade students to read on the iPads. Fourth graders will experience writing for a purpose as they publish their work and help other students learn about science.

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Project Title: On the Move with iPads

Staff: Robin Davies

By implementing my 'desk-less' classroom, I will be able to teach students using experiences that are more comparable to 'real-life'. With the support of additional iPads, students will be mobile and tackle differentiated tasks in a variety of learning settings similar to the real world - solo, in partners, or in small groups around the room. Students will learn to utilize the iPads in school gardens, on field trips, etc. to record observations, compare and contrast, record notes, narrate actual experiences, document with photographs, and share knowledge with others.

Project Title: Special Project for Special Education

Staff: TimiSue Abbott

This project is designed to incorporate visual, hands-on, and meaningful technology that will encourage and strengthen skills. Students will use reading, writing, listening, research and speaking opportunities in a variety of inclusion settings providing the students with full access to the general education curriculum within their homeroom environment. With a wide range of abilities in a classroom setting, multiple iPads would allow for more individualized instruction that provide varying levels of difficulty while keeping the device mobile.

Free Orchards

Project Title: Creating Chatterboxes

Staff: Alexis Barker

"Creating Chatterboxes" will change the classroom experience for special needs students, providing tools that promote higher levels of engagement in expressive language. First through fourth grade students with communication disorders, learning disabilities, and identified second language learners will use iPads as a tool to become "chatterboxes", engaging in an alternative way to enhance their ability to find their voice—both verbally or nonverbally.

Project Title: iRead, iLearn, iSucceed, iPad

Staff: Kendra Schlegel

Second grade students at Free Orchards will use iPads as a part of their daily learning routine in order to move school lessons beyond textbooks. This project will help integrate the use of widely implemented technology into students' daily lives while helping close the achievement gap that is too often present in ELL and low-income environments.

Project Title: Talented and Gifted Education: Using Technology to Engage Minds

Staff: Kimberly Harrington & Laycee Kinsman

Technology can offer personalized learning opportunities for all students, but this grant seeks to provide technology that can specifically reach our Talented and Gifted learners. Most educators and parents of TAG students would likely agree that it can be very difficult to challenge TAG students across the academic disciplines. Using iPads housed within each grade level team, first through sixth, teachers can customize their iPads to specifically better meet their TAG student's individual learning and cluster group needs.

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Project Title: Technology for the Future

Staff: Molly Scott

First graders at Free Orchards will be using the iPads to enhance their learning of the CCSS. Students will use the iPads to practice reading, writing, speaking and listening. Using technology this early on in life will give these first grade students the exposure that they need to be successful with technology later on.

Glencoe High

Project Title: Increasing Project Authenticity Through Data Acquisition and Analysis

Staff: Peter Schmurr

Glencoe High offers students Principles of Engineering and Digital Electronics. Students enrolled in Digital Electronics have been learning the fundamentals of circuit design. Students enrolled in Principles of Engineering learn about control systems, mechanical and structural engineering. The goal of this project would be to increase the authenticity of assignments by introducing professional instrumentation. The PLTW myDAQ Minisystem interfaces with existing classroom computers running the LabVIEW software platform. In both classes, students would be able to make design decisions based on real data collected by authentic instrumentation used in industry.

Project Title: Technology Equity at Glencoe

Staff: Michelle Buyas

The college and career centers' services are in high demand due to our individual ASPIRE student meetings, classroom presentations, community outreach, and monthly parent education nights, in addition to Naviance being completely web-based. Many students do not have home access to technology revealing a need to create equal access to all students in our building. Navigating Naviance tools and completing FAFSA, scholarships, and college applications provides an opportunity to create a real-world application to math and reading concepts that are being taught in the classroom.

Imlay Elementary School

Project Title: Success through Innovation

Staff: Anita Hansen

Imagine a classroom where students are given a selected text to read and a follow-up worksheet to complete. Given technology, students who previously would not have been able to complete these tasks can grab their tablets, go on to BookShare, listen to the text on headphones while following the highlighted text, take a snapshot of the worksheet, dictate their answers into microphones and email their teacher the completed worksheet. Technology can open vistas previously thought out-of-bounds.

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Lenox Elementary School

Project Title: Chromebooks for Literacy, Writing, Math, STEM and flipped learning experiences

Staff: Tiffany Windle-Hanson

Students would be able to use the Chromebooks in all subject and content areas. They could be used independently, in partners and in small groups. These Chromebooks will allow the teachers to divide the classroom into smaller groups and give students the opportunity to work independently with the aid of technology. While a group of students work on research, word processing, reading activities, math application or interactive STEM activities, the classroom teacher could pull a separate group to work on targeted learning, once the mini lesson was concluded the classroom teacher could “flip” the groups and focus the next lesson on the second set of students while the first set works on the Chromebooks. This model would allow more individualized attention from the teacher and a more focused lesson for each student’s needs.

Project Title: Using iPads to Explain Math Ideas

Staff: Dale Rosenthal

This project would like to use Apple iPad minis to enhance student work in math. Currently, students show their work on paper. Using iPads, along with either iMovie or Educreations, students will be able to produce short videos that will show their understanding of major and minor math concepts. Those videos would be available for other students to view, so they could see how others in the class approach problems and understand concepts.

Liberty High School

Project Title: Flipped Science

Staff: Ramona Toth

Using iPads and a flipped learning environment will assure equitable opportunities for all students to become college and career ready. It will promote excellence in our students’ ability to inquire, think critically and analytically while demonstrating global technological literacy.

Patterson Elementary School

Project Title: Exploring ideas beyond our classroom walls

Staff: Zoe Godsey

I believe my students will learn at a deeper level if they are able to follow their own inquiry and research using engaging technology like iPad Minis. They will have access to accurately leveled texts for ELA CCSS standards and practice for Math CCSS Standards. Technology like this will allow my students to not only discover information but to synthesize it and create presentations, videos, and other products of their understanding.

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Poynter Middle School

Project Title: Equitable Access to Science Standards for Students in Specialized Programs

Staff: Amy L DeCoster

The purpose of this project is to provide students with disabilities equitable access to age-appropriate core content, (reading, writing, math) science and technology, through the use of the Unique Learning System (ULS) curriculum, an innovative web-based program, five classroom-based iPads and corresponding teaching materials and applications. The combined use of these tools will allow all types of learners the ability to better participate in and demonstrate skill mastery/learning in all subjects.

Quatama

Project Title: Integrating Music

Staff: Carissa Martus

Music today is very technology oriented from instruments, mixing, recording, performance and editing. Last year 9 teachers received a grant for Musical iPads. The project was very successful, but because 9 music teachers teach in a total of 18 different schools, each school only receives the iPads for a max of 8 lessons per 2 years! Funding this project for Quatama would allow me to keep track of assessment data, use up-to-date visual strategies, and hands-on games to help interest students in an interactive way for the entire year.

Project Title: iPads Motivate And Improve First Grade Reading And Writing

Staff: Chris Brosnan

Through the use of iPads, first graders will be motivated to read more and write higher quality pieces. Many first graders are still learning letter names and sounds. These students will have the opportunity to use apps geared for their level. Students will be able to read stories at their appropriate level and listen to more complex stories. The iPad apps will cater to all skill levels improving decoding, fluency and comprehension. Writing projects will include art and an opportunity to fluently read and record their stories. The opportunity for iPad use will motivate students to produce quality writing.

Project Title: PROJECT 221

Staff: Leslie Sell

As important as it is to get technology into the hands of young students, it is equally important to get all students engaged in purposeful, face-to-face conversation with their peers; especially important for my ELL students, giving them plentiful opportunities for oral rehearsal and interaction with native speakers in multiple contexts. The idea behind "Project 221" is to have one Google Chromebook for every two students. Chromebooks will be used for writing projects and to access the Grammar Gallery and the Word Generation programs to make the most of technology and collaboration in the classroom.

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Project Title: Square of Life

Staff: Sharon Angal

Square of Life project will provide third graders at Quatama, an experience in conducting a real-world scientific inquiry project. In this project students will plot square meters in their school yards and record the living and nonliving things that are found therein. They will submit this information to the project database for all to view. Students will then compare and contrast their information with that submitted by other classes and prepare a brief report or presentation that will be posted to the project web site. Throughout the run of the project, classes will be encouraged to communicate with other schools via the Discussion Area.

Rosedale

Project Title: Academic Growth and Achievement for Second Grade

Staff: Rhianon Surerus and Amber Vanzant

Student engagement and learning go hand in hand and are interlinked. When students have purposeful, meaningful instruction and immediate intervention, academic success will follow. Through the use of iPads instruction time will be capitalized and, students will engage in learning experiences that support and foster academic growth in writing, reading, and math skills. The goal of the project is to maximize student outcomes through iPad and app technology integration into the classroom.

Project Title: Differentiation on Demand

Staff: Michelle Edwards

In order to reach all students, instruction must be: differentiated, engaging, and flexible. Ipad minis help me deliver this type of instruction. Whole group instruction has its place when a majority of students are making the same errors. However, much of the time, across the core subjects, students fall into four different instruction groups. One group needs accelerated learning, another needs occasional practice to maintain accuracy, another needs more time and modeling to achieve mastery, and the final group needs intensive instruction to learn the concept. Student access to Ipad Minis allows me to meet with these different groups of learners.

Project Title: Flipped Classroom via Chromebook

Staff: Patrick Brittenham

Using a half-class set of Chromebooks students will experience a flipped classroom allowing for differentiated learning and more personalized instruction all monitored, tracked, and aligned to CCSS via the LMS, Schoology. Students will use Google Docs to track their writing process, record data, create graphs, and share resources/links with their peers.

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South Meadows Middle

Project Title: Improving Equity in Inquiry

Staff: Robert Deering

With the increasing emphasis on standards based learning, inquiry and cross-curricular instruction, the classroom is becoming a place where students are engaging in collaborative learning and relying less on direct instruction by the teacher. The role of the teacher is becoming more of a facilitator, guiding the process of student inquiry. The inequity in access to computer resources and ability to use computers for academic purposes is hindering the growth of a significant portion of our student population. By providing modern tools to foster collaboration and productivity in the classroom, students can increase their understanding of scientific principles and create meaningful work product, while practicing social skills crucial to success in later life.

Project Title: Interactive Technology to Enhance Math Engagement for 7th Graders

Staff: Jenae Gregory

Imagine a classroom where students are out of their seats, interacting with each other, discussing problems and working together to solve them. Student answers go directly to the teacher who can adapt immediately to demonstrated need while students also know how they are doing right away. Which classroom sounds like the better environment for student engagement and learning? The use of an interactive whiteboard, pad, and voting system will enhance math activities and implement the CCSS into everyday lessons. Students of all levels will have the opportunity to access the CPM curriculum through hands-on, technology-based activities. It will motivate all learners and promote enthusiasm for learning.

Witch Hazel

Project Title: Engagement, Enrichment and Intervention

Staff: Christal Winesburgh

My goal is to increase student engagement and productivity as well as address all student needs for enrichment and intervention while allowing students to work at their own rate. Adding Chromebooks to the classroom will give my low income, high ELL students consistent access to Google docs for Writer's workshop and assignments, research tools, the internet for Moby Max and Khan academy as well as a chance to start blogging and create multimedia presentations in all subjects.

Project Title: No Child Left Without

Staff: Kim Porter

My goal is to obtain one iPad for every student in my class. I will use free and low-cost apps, Google Drive and apps, the Internet, and current HSD software (via VM Ware) to support student learning in my classroom. Students will learn how to use email, share documents, collaborate online, create charts and graphs, connect with and contact people around the world, learn to type, etc. – all techniques very few of my incoming fifth graders have mastered. Using iPads will prepare students for applications in and with the real world, as well as the upcoming Smarter Balance Assessment Consortium (SBAC). iPads will encourage students to work cooperatively, teach each other, problem solve together, and explore technology.