



BEF Classroom Innovation Grant Awards Winter 2011

All About Me

School: Aloha and Beaverton High

Recipient: Victoria Lukich and Melissa Allen

Award: \$930

Funding provided through the Dave Gettling Technology Fund

Funding will be used to purchase Flip Video cameras for a project that uses student-created video autobiographies as a tool to help them make connections with their teachers. During the development of the videos, students have the opportunity to be reflective and creative as they engage in this authentic, meaningful and challenging learning experience. As students tell their personal stories through video, they express their individuality and share their rich cultural histories. They have the opportunity to reflect on their academic, personal and career goals and to identify what support they need from their teachers in order to reach those goals.

Life in the Kitchen

School: Aloha High

Recipient: Bridget O'Connor

Award: \$1,000

This award will provide a stove and refrigerator for a project designed to reflect real-life independent living situations. Students will gain life skills in the high school classroom “apartment” by learning to budget for, plan and cook nutritious meals. While preparing meals, they will learn about hygiene in the kitchen, proper cleaning of equipment and materials. In addition, students will become familiar with and understand food labeling and nutrition.

Arts for Learning (A4L) Lessons

School: Beaver Acres Elementary

Award: \$312.50

Award will be used to fund one Arts for Learning unit, with an artist in residence in one classroom in each grade 3-5 during the spring. Arts for Learning integrates standards-focused, text-based content and arts strategies to improve students' achievement in literacy, learning and life skills.

Arts for Learning (A4L) Lessons

School: Bethany Elementary

Award: \$312.50

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Arts for Learning (A4L) Lessons

School: Chehalem Elementary

Award: \$312.50

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Arts for Learning (A4L) Lessons

School: Cooper Mountain

Award: \$312.50

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Arts for Learning (A4L) Lessons

School: Findley Elementary

Award: \$312.50

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Arts for Learning (A4L) Lessons

School: Fir Grove Elementary

Award: \$312.50

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Wii Fit Recess

School: Greenway Elementary

Recipient: Susan Bomber

Award: \$955

The goal of the project is to provide an engaging recess experience for students in the self-contained special education classroom. For these students recess can be a very negative experience. The Wii games will provide opportunities for social, cognitive and physical experiences in a structured environment. Once the students have learned the game basics, mainstream peers will be invited to join them to enhance the connection between all students.

iPad as a Teaching Tool

School: Hazeldale Elementary

Recipient: Katherine Kelley

Award: \$650

The iPad will be used as part of a language intervention program focusing on students with communication delays. The schools' Speech Pathologist will use educationally focused applications to achieve better outcomes and progress towards curriculum relevant goals for every student with speech, language and social communication delays.

River Watershed Expedition

School: Health Science School

Recipient: Anne Rybak

Award: \$1,000

Funding provided through the Building STEAM 4 All Program

To reinforce the tie between the arts and sciences, students will attend a fieldwork session through the Audubon Society to the Sandy River Watershed, gaining hands-on experience detailing their observations and sketching the river ecosystem. Students will produce a field guide that includes painting, poetry and detailed adaptation facts about their chosen animal. In addition, they will document the water quality and its effect on the ecosystem and their animal.

Engineering and Design: Investigate, Design and Build

School: Jacob Wismer Elementary

Recipient: Patty Blechman and Yvette Wallace

Award: \$1,000

Funding provided through the Building STEAM 4 All Program

This two-year project will begin with second graders learning about engineering and design through the use of earth materials in the design and construction of technology. The students will design a mortar mixture, then will plan, create, test and improve their design as they create their own walls. In the second year, the third graders will learn about engineering and design while designing and building bridges. Students will explore why bridges are shaped differently and distinguish between beam, arch, and suspension bridges, as they construct and test their own bridges.

Arts for Learning (A4L) Lessons

School: Kinnaman Elementary

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Summer Book Bags

School: McKay Elementary

Recipient: Lori Laws

Award: \$1,000

Sponsor: Nike

This grant will support a summer reading project that encourages students to continue reading over the summer. Maintaining reading over the summer will help maintain or increase academic achievement across the curriculum. Special summer reading bags will securely contain appropriately leveled, high interest books for students to take home over the summer and return at the start of the next school year.

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Arts for Learning (A4L) Lessons

School: McKinley Elementary

Award: \$312.50

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On the Right Track

School: Meadow Park Middle

Recipient: Tiffany Tran-Parta, Susan Duncan, Amber Evans

Award: \$1,000

Funding provided through the Building STEAM 4 All Program

Students will have the opportunity to learn about solar energy by designing, building and racing their cars on a neoprene track. Students will use the engineering and design process to work in teams to create a unique car that will run solely using the sun's energy and make their design decisions based on evidence gathered through their solar cell experiments. They will learn the concepts related to forces and motion, friction and aerodynamics.

Arts for Learning (A4L) Lessons

School: Nancy Ryles Elementary

Award: \$312.50

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Flip Video Puppet Theater

School: Oak Hills Elementary

Recipient: Kristina Guerra, Sally Doughty, Lauren Gilchrist, Angela Karim,
Chris Amorose

Award: \$1,000

Funding provided through the Dave Gettling Technology Fund

The goal is to engage and introduce young learners to the power of audio and video production in everyday learning. At its heart, this project provides a platform for kindergarteners to improve interpersonal communication skills. The Flip Video cameras small size and ease of use allows kindergarteners to hear and see themselves, while taking a hands-on role in their created media. Puppet Theater offers a safe and inviting environment for young learners to use their imagination in creating speech. Teachers will address literacy goals, develop vocabulary and provide cooperative learning opportunities that will instill a love of language.

Arts for Learning (A4L) Lessons

School: Raleigh Park Elementary

Award: \$312.50

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Arts for Learning (A4L) Lessons

School: Ridgewood Elementary

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Arts for Learning (A4L) Lessons

School: Rock Creek Elementary

Award: \$312.50

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Children with Autism Need Visual and Sensory Supports

School: Sexton Mountain Elementary

Recipient: Ashlee Yokom

Award: \$472

Visual and sensory support materials will be purchased with grant funding, to assist kindergarten and first grade students who are impacted by Autism Spectrum Disorder and other communication related disorders. Teachers will work on teaching routines that encourage appropriate interaction with others, and ways to self regulate.

Have a Healthy Heart

School: Springville K-8

Recipient: Laura Manning, Jennifer Tonges

Award: \$975

Funding provided through the Building STEAM 4 All Program

First and second grade students will be involved in an in-depth study about how the choices they make can impact their future health. Students will learn the importance of the circulatory system, and what is needed to have a healthy heart. This investigation will include looking at how both nutrition and exercise have a direct impact on heart health. Students will use a variety of tools for the exploration that will include pedometers, heart rate monitors and stethoscopes. Field experiences and experts will be utilized to enhance this project. The study will culminate with the creation of an exercise DVD.

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Arts for Learning (A4L) Lessons

School: Terra Linda Elementary

Award: \$312.50

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Math Lab

School: West Tualatin View Elementary

Recipient: Kalay McNamee

Award: \$800

Funding provided through the Building STEAM 4 All Program

Math Lab is an educational program that is designed to provide targeted math instruction and support to students in third through fifth grades. Students will be taught at their individual level with the goal of improving math computation and math fluency. This project is community led, as local senior citizens will serve as math coaches.

Classroom Success of Students with Communication Disorders

School: West Tualatin View Elementary

Recipient: Emily Ciesielski

Award: \$839

Children with speech and/or language delays are at a significant disadvantage in a school setting, as they are not able to communicate at the same level as their peers. They may have difficulty being understood due to articulation errors, or may have difficulty understanding spoken language. This project will give these students the ability to take control of their listening environment through the use of Livescribe Smart Pen technology that does not make them stand out as being different. The Livescribe has many different applications in the educational environment, including allowing teachers to record classroom directions. The student can then repeat the directions as many times as they need, slowing them down and/or repeating them one at a time.

Science Inquiry Watershed Study

School: Westview High

Recipient: Debbie Cooper

Award: \$1,000

Funding provided through the Building STEAM 4 All Program

One hundred and forty students will have the opportunity to participate in a hands-on science inquiry watershed study in their community. Students will study eight natural areas in the Beaverton area. Each locale has a stream running through it. Students will carry out their water quality tests and field assessment labs at their assigned sites. Students will be mentored by their teacher, Tualatin Hills Parks and Recreation District Natural Resource personnel and seniors from the PSU Environmental Studies Department.

Oregon State University Visit

School: Whitford Middle

Recipient: Kristine Napper

Award: \$500

Eighth grade English Language Learner (ELL) students will visit Oregon State University for a day of the college experience. Students will participate in a campus tour, visit the diversity centers, ask questions of the hosting university students, and do hands-on science activities. This trip takes college from an abstract idea to a tangible and realistic goal for these students.

Inquiry with Digital Microscopy

School: Whitford Middle

Recipient: Toni West

Award: \$1,000

Funding provided through the Building STEAM 4 All Program

This project will allow one hundred students to rotate through different science learning opportunities monthly. One of these opportunities will be to design and run an inquiry experiment that uses a scanning electron microscope (SEM) as the primary measurement instrument. Students will learn how a SEM works and what types of experiments can be done using one. Students will collect and prepare their own samples and run the microscope themselves to collect digital pictures, which they will analyze both qualitatively and quantitatively.

Arts for Learning (A4L) Lessons

School: William Walker Elementary

Award: \$312.50

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Technology Infused Academics

School: ACE Program: Capital Center

Recipient: Sally Geary

Award: \$997

iPad and iPod Touches will be used to help increase students with special needs, motivation to work on skills they have not yet mastered. This highly motivating presentation technique, tied in with interactive features, will be used to improve student performance in both academic and functional living skills areas.

With thanks to our generous donors, including the Dave Gettling Technology Fund, A4L donations, Nike, Inc., and the Building STEAM 4 All Program, the Beaverton Education Foundation was able to award \$20,118.00, funding 33 classroom projects this award cycle.