

School	Grant Title	Description of program/project
High Plains Elementary	The Terrarium Project	The Terrarium Project is a fun, challenging, hands-on unit that integrates science, art, reading, writing, and design all within one project: the creation of a terrarium. Students will work together to research, learn botanical illustration basics, draw, and finally create terrariums, or "jar gardens." We will team with a local gardening center as well as the Denver Botanic Gardens to further teach students about gardening and plants as well as botanical illustration techniques.
Holly Hills Elementary	Developing Student Authors: From Noise to Published Pieces	Second and third graders become digitally published authors! Students create their own audiobooks and ebooks!
Heritage Elementary	3-D PRINTER	Kindergarten through fifth grade students at Heritage will utilize three-dimensional printing technology in order to deepen and enhance their science, technology, engineering, and mathematical learning. Authentic connections to learning will prepare students for twenty-first academic and career challenges!
Sagebrush Elementary	Get Your Wiggles Out!	We are seeking bands for student chairs that will allow students to wiggle and move at their seat, increasing activity and engagement!
Aspen Crossing Elementary	Colorado Close Reading for 4th Graders	The purpose of this program is to get novels into the classroom based on the social studies curriculum. Giving students more resources to learn about Colorado History will allow them a deeper understanding of the social studies curriculum.
Arrowhead Elementary	West African Drumming	Students will participate in a multicultural drumming program and performance using authentic instruments, songs, and dances of West Africa. The program will be part of an integrated Multicultural Week celebration incorporating Music, STEM, P.E., and Art.

Polton Elementary	Speak Up, Preschool	The "Speak Up, Preschool" program provides students access to an individualized, voice output, augmentative alternative communication apps across a variety of school settings. Use of these apps naturally encourages children to become active learners and communicators in the classroom setting through meaningful conversational exchanges.
Independence Elementary	Enhancing Speech and Language Therapy with Technology	I am seeking funds to purchase two programs that will utilize technology to enhance the delivery of speech and language services in an engaging manner. These programs address development of vocabulary and critical listening skills.
Meadow Point Elementary	Classroom Pedal Desk	Research shows that even brief periods of physical activity can help the brain focus. The stationary bicycle work station is a creative solution that can help meet children's need for activity without sacrificing instruction time.
Eastridge Community Elementary	Eastridge Elementary 3D Printer Grant Proposal	The Eastridge Elementary 3D grant proposal will provide over 770 elementary students access to learn S.T.E.M. components through experiential learning. The 3D printer provided will significantly impact student learning as kids create and develop projects through the engineering cycle and scientific process.
Sagebrush Elementary	5th Grade Clay Whistles	Through a series of workshops in partnership with the arts nonprofit Think360 Arts, fifth graders at Sagebrush Elementary will have the unique opportunity to work with and learn from a professional ceramic artist. Students will learn clay techniques to create whistles and transform them into animal forms; they will learn how and why a clay whistle works, and why the whistle's size and shape changes the sound. Later in the school year, students will create and participate in a student-driven performance using their hand-made whistles, supervised and guided by the art teacher and music teacher.
Horizon Middle School	Plant a Seed, Grow a Mind	The grow lights will allow students to design, observe, and explore life processes. Students will be able to manipulate variables and take real time observations of the human impact on the populations of Earth's valuable and renewable plant resources.

Fox Hollow Elementary	Active seating to increase overall focus	Will provide active seating to improve focus and ability to learn on a universal level. This will benefit students with ADHD or who need increased movement and sensory input while sitting in class attending and learning.
Sunrise Elementary	"Psst! I think I know which book's going to win the Newbery!"	The Sunrise Newbery Club is a unique scholarly society comprised of voracious and opinionated third, fourth, and fifth grade readers aimed at challenging students to debate the literary merit of the best books of 2016. Students use the criteria employed by the actual Newbery Medal Committee to select and defend their selections of which books they believe should win the coveted John Newbery Medal in January.
Independence Elementary	Tools for Focused Learning	The classroom tools must change to create an innovative environment that allows for movement, thereby focusing attention and enhancing a child's ability to learn. This project seeks to place standup desks and movement stools in the classroom so all students, including those with executive functioning needs and ADHD, can direct their needed movement productively, and simultaneously regain attention and "on-task" behavior.
Meadow Point Elementary	LEGO® Writers	Meadow Point 3rd Graders will exuberantly utilize LEGO® Education StoryStarter Core Sets and The LEGO® Ideas Collection of books as inspiration for narrative and informational writing. Students will engineer their writing plans with LEGO® pieces specifically made for creating characters, settings, event actions, main ideas and details.
High Plains Elementary	Weather Balloon Investigation	This weather balloon project will utilize all 4 areas of STEM. The students engage in planning, building, launching, and analyzing a balloon trip that culminates in a community launch to the edge of space! Follow up digital storytelling projects will support every 5th grade student with capturing this learning narrative through their own perspective.
Ponderosa Elementary	Build It - Online	Minecraft for education is an innovative, highly motivating way to teach engineering, citizenship and cooperation in the classroom.

Belleview Elementary	Makey Makey Controller Boards	Belleview students will collaborate with teammates to turn everyday objects into circuits, musical instruments, or even game controllers by incorporating grade level math, technology, and literacy standards to write programming instructions to run the Makey Makey. Students will be learning kinesthetically to work through math and literacy logic problems while creating the code necessary to operate these controller boards.
Ponderosa Elementary	Digital Storytelling with WeVideo	WeVideo is an online program that students can use for digital storytelling while using recorded audio, narration, text, music, images, and videos. Each student has an individual account which they can access on iPads or computers to present information to teachers, classmates, friends, family, and the community.
Cottonwood Creek Elementary	Cultural Identity Through Art and Photography	Through the craft of photography, students will document their own cultural heritage by focusing on their own lives and community. They will learn how to visually capture images and tell a story through art.
Black Forest Hills Elementary	5th grade Genius Hour	The 5th grade Genius Hour was inspired by the Google concept of 20% Time and encompasses the personalized learning aspect of curriculum design by allowing the students to choose projects based on areas of personal interest. This curricula promotes science, engineering, technology, and literacy based learning where students solve problems through: creating, experimenting, examining, designing, building, testing, demonstrating, improving, and embracing imagination.
Aspen Crossing Elementary	Colorado Studies	Aspen Crossing fourth graders will be given the opportunity to read a weekly Colorado Studies magazine which supports our Colorado Academic Standards. Through the use of these weekly magazines students will have non-fiction text at their fingertips; giving students more resources to learn about the great state of Colorado.
Belleview Elementary	Belleview in 3D	Belleview students will work hands-on with 3D printer technology to explore, experiment, problem solve, and create designs. Students will incorporate grade level math, language arts, and science standards with engineering and technology during their STEM specials rotation.

Ponderosa Elementary	Building Connections with Young Children through Social and Emotional Learning	Social and emotional learning (SEL) is the process in which students learn how to manage one's emotions, establish and maintain positive relationships, and build problem solving skills. In schools, if a student is unable to regulate his or her emotions, it can be extremely difficult to maintain the focus needed to participate and engage in the academic curriculum. Students at Ponderosa participate daily in "Connect to Kids", which provides the opportunity for the classroom teacher and students to build relationships, learn ways to build empathy, and problem solve. Through the use of the Second Step program, teachers will have a method of teaching the skills needed to integrate social and emotional learning into the classroom.
Ponderosa Elementary	Enhancing Social and Emotional Learning through Building Relationships	Social and emotional learning (SEL) is the process in which students learn how to manage one's emotions, establish and maintain positive relationships, and build problem solving skills. As students enter second and third grade, the academic rigor increases and district and statewide assessments become more prevalent. If a student does not feel a connection to school, it can be extremely difficult to maintain the focus needed to participate and engage in the academic curriculum. In order to reach each student and build connections with teachers, students at Ponderosa participate daily in a time called "Connect to Kids", which provides the opportunity for the classroom teacher and students to build unity and community within the classroom. The purpose of the Second Step program is to teach skills for learning and social-emotional skills that will set students up for social, emotional, and academic success.
Ponderosa Elementary	Building Connections through Social and Emotional Learning	Social and emotional learning (SEL) is the process in which students learn how to use emotional regulation, establish and maintain positive relationships, and learn effective ways to problem solve. Fourth and fifth grade students are seen as leaders of the school and it is important that our students are learning ways to model appropriate social skills and demonstrate emotional intelligence. If a student is unable to regulate his or her emotions, it can be extremely difficult to maintain the focus needed to participate and engage in the academic curriculum. Also, student engagement is vital for overall academic success and building relationships can be one of the best ways to enhance engagement in schools. At Ponderosa, students participate daily in "Connect to Kids", which provides the opportunity for the classroom teacher and students to build relationships, leadership, trust, responsibility, and safety within the classroom. The Second Step program will provide teachers with a way in which they can teach the skills needed to integrate social and emotional learning into the classroom.

Mission Viejo Elementary	HOPE Saturday Academy/STEM Curriculum	For the past 5 years, in partnership with HOPE worldwide, Mission Viejo Elementary School has run a "Saturday Academy" for "at risk" students. This year we will be using the Engineering is Elementary (EiE) curriculum for all students who attend the Saturday Academy (grades 3-5).
Black Forest Hills Elementary	Dash & Dot Robots for STEM Instruction and Implementation	Utilizing child-friendly, programmable robots (Dash & Dot), Black Forest Hills students will learn to solve problems using critical thinking skills, gain exposure to simple robotics, and become creative thinkers. As the robots become integrated into the STEM curriculum, the students will begin to understand how all aspects of STEM are intertwined and how crucial they are to the world around them.
Eastridge Community Elementary	Genius Makers- Thinking and Tinkering to Make Sense of the World	Sir Ken Robinson states, "Curiosity is the engine of achievement." and Genius Makers is a time for students to feel empowered and self direct their learning through curiosity to achieve success. As the teacher is facilitator, student's personalized passions are cultivated and learning is disguised through creativity, collaboration and risk-taking.
Independence Elementary	Empowering Learners Through Differentiation	Empowering learners is accomplished by providing students access to grade level materials with tools that allow autonomous success. Using a Swivl to record essential lesson components and instructions, students can repeatedly view information on Schoology, at home or at school, until achieving comprehension.
Holly Hills Elementary	Empowered Learners: Supporting Attention and Self-Monitoring with Hokki Stool Seating	Hokki Stools provide a safe, efficient, durable option for active seating that supports sustained focus and writing effort for students who have difficulties with attention and alertness. A 2014-15 CCSD Foundation award allowed introduction of this tool in 2nd grade classrooms and will now be expanded to Intermediate-grade classrooms where students will be taught to self-monitor their productivity and focus, self-advocate for learning supports, and reflect on the impact of the physical environment on their alertness and sustained effort.
Creekside Elementary	Engineering Through Cubelets	Creekside students will use Cubelet robots to increase engagement, problem-solving, and discovery learning within the Engineering Design Process in the STEM classroom. These tiny robots give students the ability to take their creativity and imagination to a higher level with hands-on technology.

Falcon Creek Middle	Experiencing the Roman Empire by Creating Encaustic Wax Paintings	Discovering the culture of the Roman Empire through learning and experiencing encaustic wax painting is an enrichment activity that includes humanities and art. Students will create personal portraits working in a wax medium similar to the way it was done by the people in the Roman Empire thousands of years ago.
Campus Middle	Stranger Than Fiction: Using Nonfiction Texts to Teach Narrative Structure	Stranger Than Fiction will provide two nonfiction texts, <i>The Ghost Map</i> and <i>Animal Vegetable Miracle</i> , to Honors students as anchor texts for two thematic units. Students will analyze the books as part of a nonfiction text set and create professional-quality posters and electronic presentations based on their reading.
Thunder Ridge Middle	STEM EV3 Robots	The STEM program at Thunder Ridge Middle School is expanding to include an advanced robotics course in 8th grade as well as a FIRST Lego League team open to 6-8th grade students. Both the classes and the team will prepare students for high school robotics and more advanced computer programming.
West Middle	STEM and Wind Turbines in the Science Classroom	Students at West Middle School will be investigating alternative energy resources and the costs and benefits of using renewable energy resources such as wind energy. In collaborative teams, students will build a wind turbine and experiment with variables such as blade design and placement to maximize energy output.
Campus Middle	Mustang Medal	The Mustang Medal is similar to the Newberry Award. We choose 6 nominees to compete to see which book would win book of the year or the gold Mustang Medal.
Prairie Middle	An Adventure in STEM	Prairie's 8th grade math support students will be immersed in real-world math and STEM applications as they work in teams to complete design tasks focused on overcoming the challenges of climbing Mt. Everest. Everest Trek's engaging approach will have our students excited to share their research-based solutions with peers and outside experts.
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Horizon Community Middle	Flip and Swivl the Classroom	Having worldwide access to classroom materials and instruction is no longer the exception, it is the expectation most students have of their teachers. The Swivl Video Robot will help teachers blend their classroom instruction with the online learning platforms their students already know and love.
Falcon Creek Middle	STEM Initiatives	The STEM initiatives at Falcon Creek involves supporting the Robotics & Engineering STEM elective course as part of our programming.
Challenge	Japanese Art Integration	The Challenge School fosters learning through interdisciplinary subjects. As an important part of the Humanities Curriculum, integration with the arts is an ongoing component. Within the study of feudal Japan, students will apply what they have learned in humanities (social studies/ language arts) in a hands on art experience which solidifies and helps assimilate information in a concrete way, producing a final work of art which students can relate to their study of this culture.
Campus Middle	STEM Fast Plants Genetics	STEM Fast Plants Genetics: Closing the achievement gap and providing inclusive excellence through authentic student-centered experiences during the study of genetics through the use of Fast Plants in the classroom.
Sky Vista Middle	Community Inclusion Opportunities	Our class is a structured, self-contained, community based Autism program. The program provides students diagnosed with Autism opportunities to access skills necessary for independent, adult living as taught through both the structured classroom and out in various community settings.
Thunder Ridge Middle	Characterization of antiseptic resistant bacteria	Young scientists at Thunder Ridge M.S. will be learning about the theory of evolution by natural selection through the lens of STEM. Students will learn to culture microorganisms on petri dishes and expose these organisms to various antiseptics to see if any are resistant to these toxins.

Fox Ridge Middle	Immediate Feedback Assessment Technique (Scantron Forms)	The Immediate-Feedback Assessment Technique Forms are Scantrons that can be compared to a Lotto "Scratcher"; after scratching off A, B, C, or D, the correct answer will reveal a small star, affirming they've answered correctly. This is an incredible way to encourage students to think through their answers, while still giving partial credit if they were wrong the first time. It is a great and fun tool for kids who think they are "just bad test takers"!
Falcon Creek Middle	Robotics Club	Robotics Club provides an opportunity for students to work together as a team to solve an engineering and research project. This club involves competitions in FIRST LEGO League.
Prairie Middle	GT Affective Needs Resources	Prairie Middle School GT (Gifted and Talented) students will have the opportunity to meet in a safe and inclusive environment and create dynamic conversations around their affective needs. This safe and inclusive environment will also be a resource center to support the needs of this middle school population and their parents as they transition through middle school and onto high school.
Prairie Middle	Virtual Inquiry of STEM "Gizmos"	Prairie's 8th grade science students will have the advanced opportunity to engage in STEM inquiry-based learning activities that support the academic content for each unit. Through the use of Explore Learning's Gizmos, students will be immersed in real-world science challenges and simulations that push for higher level thinking and content synthesis.
Sky Vista Middle	ALEKS (Assessment and Learning in Knowledge Spaces)	Sky Vista Middle School sixth graders participate in ALEKS, a web-based, mathematics learning and assessment system which pin-points individual strengths and targets immediate needs. Students self-select goals for mastering math topics in their ALEKS course and beam with pride when they reach performance thresholds.
Horizon Community Middle	Science-21st Century Edition	Simple lab equipment becomes an innovative teaching tool when paired with the NGSS Science and Engineering Practices. Students will engage in scientific concepts as real scientists do- designing and carrying out investigations, then supporting their claim with evidence.
Horizon Community Middle	7th Grade Science	Horizon's 7th grade science students will design and investigate how photosynthesis can decrease the effects of global climate change by comparing various amounts of CO ₂ and how it impacts the rate of photosynthesis. After gathering and analyzing data, students will present how global climate change influences environmental conditions, which affect the survival rates of individual organisms

Horizon Community Middle	Educator Initiative Grants	Earth's history will come back to life as Horizon Community's 7th grade students investigate fossils as evidence of how life on Earth has changed. Students will use hands-on activities to experience geologic time periods like they happened just years ago by studying past life just as a paleontologist would do.
Challenge	Physics, Forces, Rolling, and Levitating	Middle School students use highly engaging technology to learn about force and motion in moving objects. Students will design, build, test, and redesign rolling cars and mag-lev vehicles while learning about Newton's Laws.
Eaglecrest High	Sit & Cycle	Using portable, under-desk cycles, Eaglecrest students can fit in some of their recommended daily physical activity while still studying, getting homework done, or reading in the library.
Cherry Creek High	Odyssey- From Abstract to Concrete with Visualizations	ODYSSEY is a unique teaching program for introductory and general chemistry classes in middle schools, high schools, colleges, and universities. Utilizing scientifically-based molecular simulations, ODYSSEY provides an interactive environment for learning and exploration.
Smoky Hill High	One Book One AVID	One Book One AVID is a literacy initiative inviting all AVID students to read a common title. This initiative is meant to create a sense of community and synergy throughout AVID students at Smoky Hill, the Cherry Creek School District, and in the international AVID community.
Overland High	Mood and Food: The Relationship Between Food Choice and Mental Health	In order for high school students identified with social/emotional, and behavioral disabilities to be able to think critically about the relationship between mental health and nutrition, they will explore the foods that support a strong mental health and understand how a healthy diet contributes to a healthy mind by using hip hop as a vehicle to access information. Students will work alongside DJ Cavem and Arasia Alkemia Earth, local organic gardeners, educators and chefs, as they learn and apply how our food choices are ultimately supporting or harming our mental health.

Overland High	E-Waste Recycling Technician Training Program	The Cherry Creek Transition Program is continuing its e-waste recycling initiative, training young adults to become certified ewaste recycling technicians and concerned stewards of the environment. We are continuing our goal of eliminating the backlog of electronic waste stored by our school district, while we train our students to enter an expanding new industry.
Smoky Hill High	Robotics Creative Challenge	Smoky Hill High School's Digital-Evolutions program wants to develop a robotic competition that is low cost, involves ALL students, completely student driven, and do not affect current student contests. We want to host a one-day creative onsite robotic event where students can train anyway they choose and come together for a one day challenge using the tools and equipment they know.
Overland High	Life Skills Through Video Modeling	The Life Skills Through Video Modeling program will employ iPad mini technology to support student learning in unique and innovative ways in a variety of learning environments and real world settings. The program will allow students with autism or intellectual disabilities to use the iPad as a resource toward independence through the use of instructional videos.
Cherry Creek High	Humanities Curriculum using Narrative Nonfiction (Port Chicago 50 by Steve Sheinkin)	Cherry Creek High School 9th grade humanities students will be reading The Port Chicago 50: Disaster, Mutiny, and the Fight for Civil Rights by Steve Sheinkin. This award winning, narrative nonfiction book will enhance their combined English & US History classroom with a lesser-known, but hardly lesser-interesting story of prejudice and equality of American history.
Eaglecrest High	Shell Eco Marathon Carbon Fiber Car built by the Madmoishell Team (all girl team from EHS, GVHS, and CTHS)	The Shell Oil Company sponsors an annual world wide contest where teams design and build a single seat car that competes against other cars in a contest to determine who can get the best milage per unit of energy. We (Eaglecrest, Grandview, and Cherokee Trail) formed a team last year (The Madmoishells), named our car Athena and have it partially completed and will finish it and compete in the Spring of 2016 in Detroit, Michigan.
Smoky Hill High	Working Scale Mars Rover Entry, Descent and Landing System	Cherry Creek School District students will build and launch a working scale replica of the entry, descent and landing system that was used to safely land the Mars Science Laboratory Rover on Mars. The payload will be launched and released two miles above Colorado by a world-record setting rocket built by United Launch Alliance.

Smoky Hill High	Swivl--It Will Make Your Head Turn!	Swivl robots provide opportunities for students and teachers to be reflective about their learning by reviewing recorded lessons. Whether it is analyzing a Socratic seminar or "flipping" a classroom, the possibilities are endless.
Grandview High	Film Festival	Grandview High School has approved a 4D Film and Animation program with an integration of the digital visual media arts into the traditionally oriented STEM disciplines. This incorporation of high tech digital visual media will help put the STEAM into our STEM disciplines, fueling access to high paying jobs that require 21st century digital technology skills.