Skyview Victory Garden

Collaborative Classroom Grant Application

Skyview High School

Deb Black
1775 High Sierra Blvd
Billings, 59105

O: 406-281-5200

Mr. Kirk Woosley

1775 High Sierra Blvd
Billings, 59105

woosleyk@billingsschools.org
O: 406-281-5288

Application Form

Report Fields

Project Name*

Name of Project

Skyview Victory Garden

Amount Requested

Amount Requested

$3,500.00

Grade Level

Program Area of Request

High School (9-12)

Primary Subject Area

Please choose the primary subject area.

Other

School

Please select your school.

Skyview High School

Applicants*

Please list the educators collaborating on this grant.

Kirk Woolsey, Peggy Bergsagel, Shaye Skovgaard, Cindy Bergum, Nichole Atkinson, Nikki Wohler

Number of Students Served

Please enter the number of students that will be served by this grant.

900

Project Cost

What is the total cost of your project?

10,000

Statement of Need

Please describe the need for this project. For example, how will this project impact student learning?

As teachers from different curricular areas, we see a need for our students to 1) experience practical applications of their classwork, 2) connect concepts learned in one class to projects and ideas in another class in a cross curricular format and 3) develop a sense of pride and accomplishment in seeing a project through to completion.

With the increase in youth obesity, we find it imperative to educate our students on what goes into their food and focus on healthy options. To have the students actually grow and harvest their own food and prepare healthy meals shows them, not just tells them how to achieve healthy options. Practical applications for math, science and technology are in line with the square-foot gardening applications on determining the needs and resources involved for the garden to be successful. Hands-on learning gives more meaning and retention of concepts at all levels.

Primary Goal

Please describe the primary goal of the project and how it blends with School District 2 goals and curriculum.

Our goal through the community garden is to provide a venue students can utilize in various curricular areas to apply knowledge and skills. We want this garden to be sustainable, provide a "farm-to-table" experience, hands-on math and science activities, education on healthier eating to address youth obesity issues. We also want to forge a connection between Skyview and the surrounding community through the implementation of the garden, its maintenance and production.

Project Description

Briefly identify the major activities and materials involved in your project.

This project involves the creation of a community garden and science experimentation area. This area will be a fenced portion of ground approximately 3500 square feet and consisting of a raised beds and features that may include; sensory garden, art wall, weather station, greenhouse and outdoor classroom. The goal will be to expand the garden as the needed and as funds become available. Presently there is no area at Skyview for this type of program or activity. The garden would involve the cross curriculum areas of Science, Math, Family and Consumer Science, and Technology Education.

Through this garden students can develop an understanding of where their food comes from and how food is produced. The garden can provide a platform for students to make healthy choices about food, possible career paths, and future environmental choices through their life. Additionally, students need to develop a better understanding of how to produce food in a limited areas and how to best apply what they learn in various classes.

Currently the plan is to start the garden to produce food for the culinary classes, with the Tech Ed classes constructing raised beds. These boxes would provide applied math and construction activities fop hands on learners. Food produced in the garden will be used in culinary classes for many recipes and activities. Science can use the garden to experiment such as analysis of data from the weather station, soil profiles for the varieties of plants, population densities of animals visiting the garden, or tropism studies of the plants as they grow.

To make this garden a reality, the following are materials are needed:

*Deer resistant fencing for approximately 3500 square foot area
*Irrigation supplies for raised beds
*Material for raised beds (lumber or brick)
*Seeds and plants for gardening and native plants or shelter/windbreak
*Materials for benches/area for outdoor classroom construction

Other additions to be put in place as the project develops:

*Fruit trees to add variety to the garden
*Bird houses and butterfly houses to sustain the fauna.

*A greenhouse to achieve year-round use of the area and increase sustainability.
*A pond to add new level of organisms and create studies in hydroponics.
*Rain Barrels to collect rainwater and show students conservation and help water the garden.
*A windmill to assist with any electrical needs of the greenhouse.

Professional Development

If your project includes professional development how will it improve student performance?

No other professional development is needed at this time. Training in each of our specific fields provides us with efficient background knowledge to incorporate lessons using the garden. We plan to use some Professional Learning Community time to continue to develop and share ideas and work collaboratively together.

Project Timeline

When will you implement your project?

Spring 2014-Fence and build planter boxes for start of the garden.
Expand as funds are available and need or use expands.
Build a shed in fall 2014-2015 school year
Plan for a green house in fall 2014-2015

Plan for Evaluation

How will you evaluate student outcomes for your project?

Each curriculum area will develop its own evaluations as deemed appropriate. Specific activities and evaluations can be noted above under project description. The activities lend themselves to math assessments, health and nutrition evaluations, science inquiry and investigations. Each of these has different standards with which to align and different rubrics for assessment.

The success of this project will be evident in the quantity of students utilizing the garden for all the various activities.

Project Budget

Please explain how the funds from this grant will be spent to support your project goal. You can either type or upload a project budget to show how funds will be used. Please identify other funding sources if applicable.

Garden budget.docx
This project is a collaborative project and we are involving funds from the Technology Education Department, Family and Consumer Sciences Department, Science Department, the Class of 2014, and Key Club. The Education Foundation Grant would be matching funds to make this a successful project.
The funding would be applied to the item list attached.

Supervisor Approval*

I have received approval from my supervisor to apply for this grant.

yes

Attachment 1

Please attach any photos, pages from catalogs, or other documents below. This is completely optional.

Skyveiw Victory square foot gardening.jpg

Attachment 2

Attachment 3

File Attachment Summary

Applicant File Uploads

- Garden budget.docx
- Skyveiw Victory square foot gardening.jpg

Item	Cost	Total
3 Composting Barrels	$150 each	$450
Fence Supplies with gate for 3500 square feet		$3500
Misc. Tools, (shovels, hoes, rakes, etc.)		$250
Planter boxes – 32 2x8x8 Redwood	$23 each	$736
Lag bolts/Hardware (8 planter boxes)		$75
Irrigation supplies	$1,000	$1,000
Plants & seeds	$700	$700
Soil (4'x8' box is ¾ of a yard)	$40 per yard	$320
Freezer for food storage (Master Built)	$2,300	$2,300
Total		$9,331