

Billings West High School Science

*Dewey J. Hansen & Helen Cothron Hansen
Memorial Fund*

Billings West Science

John Miller

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Application Form

Report Fields

Project Name*

Name of Project

Billings West High School Science

Amount Requested

Amount Requested

\$14,870.00

Grade Level

Please select grade level below.

9th-12th Grade

Primary Subject Area

Please select the primary subject area of your grant.

Science

School

Please select your school from the list below.

Billings West High School

Number of Students Served

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

800

Project Cost

What is the total cost of your project?

15,620

Statement of Need

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

There are many facets to our request as a science department for the 2014-15 school year. Primarily the needs involve professional development for 2 of our teachers, transportation and lodging costs for field trips, the annual charge for the use of the Audubon Conservation Education Center, supplies for maintaining

the school garden, and substitute costs to cover when teachers are on field trips or attending the NSTA Conference.

Primary Goal

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

One of the goals is to allow for professional development each year for faculty. With the advancement in technology as well as cutting research in the various science fields it is essential for teachers growth to attend a professional conference on an annual basis. As far as field trips are concerned all current research suggests that when students spend time in the field discipline issues decline, test scores increase, and overall student engagement in class increases. A goal of West High and the District is for relevancy in the curriculum. Students spending time in the field making observations, conducting field studies, and applying concepts taught in the classroom to "real life" outdoor experiences is highly effective in bringing relevancy into the educational experience. Growing, maintaining, and getting the local neighborhood involved with the school garden provides students an opportunity to develop a life-long skill and interest and to connect with the community.

Project Description

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

Two teachers to attend the NSTA Conference - includes travel, lodging, and registration expenses

Field trips to Yellowstone National Park, Phipps Park, Four Dances, Pictograph Caves State Park, Museum of the Rockies, Cody Natural History Museum, Riverfront Park - expenses include daily bus charge, Suburban rental, overnight lodging, and gas.

Annual charge for unlimited use of the Audubon Conservation Education Center - This will allow for students in the Environmental Science class to use the Center for field studies and observations throughout the entire school year.

To grow and maintain the garden the addition of compost and mulch is required each year to replenish soil nutrients. In addition it is necessary to purchase seeds and plants.

For all field trips and conference attendance substitutes will be required which amounts to \$70 per day.

Professional Development

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

As I stated above attending a national conference such as NSTA provides teachers with the opportunity to be exposed to and learn about new technology. This learning involves not only what is available but also how it can be effectively used in the classroom. In addition learning about new discoveries in science helps to enrich what students will be exposed to in the classroom. Finally, attending a conference really helps to "recharge the batteries" for teachers by giving them new ideas, validate what they are doing, and develop a mindset of what it means to be a professional in the teaching profession. This all helps to greatly enhance student performance.

Project Timeline

When will you implement your project?

This project will be implemented throughout the 2014-15 school year.

Plan for Evaluation

How will you evaluate student outcomes for your project?

Evaluations of student outcomes will be as follows: keeping a field journal, taking quizzes and tests over concepts learned in the field, producing formal lab field reports. These all would be formal types of assessment. More informal yet extremely important will be through observations made by teachers of students while they are on field trips. Are they engaged in the activity? Are they asking questions? Are they making observations? What about discussions they are having with each other? Are they making connections to concepts taught in the classroom? Finally, are they excited about what they are experiencing? All of these will provide an effective tool for evaluating student outcomes.

Project Budget

Please identify other funding sources, if applicable. You may either type or attach a budget

NSTA Conference - 2 teachers @ \$2000 each = \$4000
10 local field trips using yellow school buses - 14 buses @ \$150 per bus = \$2100
2 field trips - Museum in Cody and in Bozeman - Rimrock Stage buses - \$1500
geology field trip to Yellowstone National Park - Suburban rental and gas = \$1500
chemistry field trip to Yellowstone National Park - Suburban rental and gas = \$1500
lodging for trips to Yellowstone Park = \$800
environmental science field trip - vehicle rental and gas = \$700
use of Audubon Center = \$450
total sub costs @ \$70/day = \$1820
garden supplies = \$500

Supervisor Approval*

I have recieved approval from mysupervisor to apply for this grant.

Yes

Attachment 1

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

Attachment 2

Attachment 3

File Attachment Summary

Applicant File Uploads

No files were uploaded