

THE KETTERING EDUCATION FOUNDATION GRANT PROGRAM

APPLICATIONS MUST BE E-MAILED ON OR BEFORE **May 14, 2007** FOR **2007-08** SCHOOL YEAR.

Use only the space provided, **PROPOSAL MUST BE SUBMITTED ON THIS FORM TO BE CONSIDERED.**

(Be sure to keep a copy for your file.) Application information will not be returned. All material becomes the property of the KEF.

PROJECT TITLE: Guided Inquiry Project for topic of Earth and Solar System
AMOUNT REQUESTED: \$1,000 (\$1,000 Maximum New Grant) (\$500 Renewal Grant)
X <input type="checkbox"/> NEW GRANT <input type="checkbox"/> RENEWAL

A. PERSONAL AND PROFESSIONAL INFORMATION:

Name (Teacher 1): Douglas Callinan
 Name (Teacher 2):
 Home Address: 2049 East Rahn Road
 City, Zip: Kettering, 45440
 School: Van Buren
 Principal: Matt Rugh
 School Address: 3775 Shroyer Rd.
 City, Zip Kettering 45429
 Tel: (School) 499-1800 (Home) 291-2725
 Grades and Subject You Teach: 8th grade science

MAIN SUBJECT AREA

- | | |
|--|---|
| <input type="checkbox"/> Art | <input type="checkbox"/> Math |
| <input type="checkbox"/> Career / Industrial Art | <input type="checkbox"/> Music |
| <input type="checkbox"/> Computer Science | <input type="checkbox"/> Phys. Ed. |
| <input type="checkbox"/> Handicapped / Learning Dis. | X <input type="checkbox"/> Science |
| <input type="checkbox"/> Language Arts | <input type="checkbox"/> Social Studies |
| <input type="checkbox"/> Health / Nutrition | <input type="checkbox"/> Special Category |

B: PROJECT DESCRIPTION

State as specifically as possible a description of your project; its purpose (need, goals, objectives), where, when, and under what conditions activities will take place.

While attending the Science Education Council of Ohio's annual conference for science educators this year, I came across a wonderful guided inquiry unit for the topic of Earth and Solar system. Guided inquiry is a discovery based type of learning where students work in groups to discover information and encourages higher level thinking. The nice thing about guided inquiry is that it is faster than normal inquiry, because it guides the students through the process. I use inquiry in my class on occasion, but it takes a lot of time and it is cumbersome to develop good units. I had never seen an entire inquiry unit that I felt was user friendly before seeing the one offered by SEP-UP (Issue Oriented Science). Not only is the material user friendly and all units fully developed, but it is also self contained meaning it comes with all the materials needed for the entire unit. The inquiry unit I want to purchase comes with materials and supplies for an entire class for 40 class periods of science. I was so impressed with this material that I wanted to try it in my classroom. I believe this will be a great supplement to existing material that I have, but the science department is in the process of purchasing new textbooks and doesn't have the funds to purchase this program. The cost of this unit is \$1,500. I can come up with some of the money myself by using some of the science budget I get each year and my principal said he can come up with some as well. So if I can get \$1,000 from the grant, I will be able to bring this non-traditional, highly engaging technique to my class next year. Several other science teachers in my building were also impressed with this material and I believe if I use it and it is successful, other teachers might want to try and do some guided inquiry in their rooms. I look forward to sharing with my fellow science teachers how the program works in the actual classroom.

In the unit I want to try, students will study the following: earth's rotation, the causes of the seasons, shadows, movement of the moon, actions and causes of the tides, and the review of several calendars developed over the years to mark the passage of time. They will also study, as part of the Mega-Module, the earth's role in the solar system, our planetary neighbors, the night sky, gravity, remote sensing, relative and absolute distances, and issues in space travel. The unit also contains issue-based real world lessons. It includes rubric-based assessment and online support materials. Of course the unit also encourages students understanding through hands-on experiences. Finally, since this module is aligned to current OAT standards in 8th grade, I believe it would be beneficial to implement this unit in my class.

I would really love to bring this opportunity to the science students at Van Buren in 2007-2008.

Please see Kettering Education Foundation Grant Brochure for program guidelines.

C: RESULTS

What specific results will this project have for students? How will you measure these results?

I will be using rubric based assessment that comes with the unit I want to purchase. I will also be able to see how well the students learn the OAT standards.

D: BUDGET

Item	Amount
Earth and Solar System Mega-Module with all material and lab-aid curriculum programs. This is a self-contained Mega Module with all required materials for an entire class and for 40 class periods of lessons.	\$1,000
	\$
	\$
	\$
	\$
	\$
	\$
	\$
TOTAL (not to exceed \$1,000)	\$

Describe additional materials, labor, or dollars which will be devoted to this project (e.g. donations, volunteer labor, other grants, school funds):

Item	Provided By	Estimated Value
Part of the cost of the Module	From my science budget.	\$Approximately \$250
Part of the cost of the Module	School Funds	\$ Approximately \$250
		\$
		\$
		\$

Submit application by E-Mail to: matt.wahrhaftig@ketteringschools.org
APPLICATIONS MUST BE E-MAILED ON OR BEFORE May 14, 2007

E: CERTIFICATION

By affording my signature, I certify that following:

1. All information contained herein is true and correct.
2. We have reviewed this proposal.
3. The beginning date of this activity is 1/22/08 and the ending date is 3/28/08. If the grant is awarded, I will submit an interim report on the form provided. I will submit a summary report, accounting for all expenditures, no later than the last day of the school year during which the project is implemented. I will reimburse any unspent funds to the Kettering Education Foundation.
4. I grant to the KEF the right to use this proposal and the results of this project, if funded, for public information purposes to help other educators or publicize the foundation and their activities.
5. I accept the decision of the Grants Committee.
6. I will submit to the KEF finished project description, letters of thanks, and photo documentation of finished project. I will submit this required information on or before March 1, of the following year.

Date: 5/4/07 Signature: Douglas Callinan (Typed name will suffice as signature)

This submittal will be automatically forwarded to your principal for final approval.