

Department of Chemistry Chemistry Building

231 South 34th Street Philadelphia, PA 19104-6323

Mini-Grant Proposal

# 2005-2006

Application for Mini-Grant Award

# (must be postmarked by September 16, 2005 to be considered)

Applicant’s Name: Spring Upshaw Date: \_September 13, 2005

Position:

Teacher Courses/Grade levels taught: Life Science/ 7th

School: William Allen Middle School

Department Head: Eugene Nicolo Principal: Sharon Jacoski

School Address: 801 N. Stanwick Rd.

City: Moorestown Zip: 08057

School Phone: 856-778-6620 Home Phone: 856-616-2898

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Proposed Grant Title: \_ Ward’s Video Flex Microvideo System

Grade level(s) this proposal addresses: 7

Brief description of proposed program: (This may be used for information purposes in publications or reports.) To improve the quality and effectiveness of lessons for students with visual handicaps, auditory impairment, and visual learners.

Total cost of project: $\_ 915.78

Applicant’s Signature Date:

Principal’s Signature: \_ Phone:

Grant Title: Ward’s Video Flex Microvideo System

Applicant: Spring Upshaw

Please respond to the following points on this page. If you need additional space for any item, include your grant title and name at the top of each page, as well as the item to which you are responding.

1. Why is this project important? (Describe the need.)

As classroom sizes increase and become more integrated, there is greater need to accommodate students with various learning styles and disabilities. The video microscope will be most beneficial to visual learners, students with visual handicaps, and students with auditory disabilities. Students with auditory disabilities will benefit because they need more visuals.

1. Instructional objectives:

The video microscope will allow the students to accomplish the required objectives of identifying and describing structures of specimens.

1. Steps to be taken to meet the instructional objectives:

The instructor will be able to use the video microscope as a model to guide students before and during the time they are looking in their individual microscopes. Students will spend less time assuming that they have identified the specimen, when in actuality they may have only located a water bubble. The instructor and students will be able to spend more time describing structures and functions.

1. Time frame for project:

The video microscope is used throughout the school year. (Sept.-June)

1. Number of students involved (break down by grade level and course): All students in the 7th grade will be able to share the video microscope. 360
2. Other faculty/adults involved (name, title, role in project):

All 7th grade life science teachers will be able to accomplish the same objectives. Kim Martin

Pam Keller

1. Materials required (instructional materials and supplies, equipment, facilities):

Microscope slides T.V.

Microscopes

Chemicals used to prepare slides VCR may be used to record images

TURN OVER 

Plans to evaluate the program: (A formal presentation by grantees to the Penn Science Teacher Institute may be required.)

Students will be given a brief written survey to compare their sense of understanding with and without the use of the video microscope.

1. Proposed budget:
   1. Materials/supplies
   2. Equipment
   3. Miscellaneous (describe)
   4. TOTAL $915.78

10. Additional Information: (You may use this space to provide any information that you feel would better help the evaluators to understand your proposal.)

There is a video microscope in William Allen Middle School, but it is not available to all students because instructors are frequently teaching the same lessons. In the past, I have observed an increase in lab scores when the video microscope was used compared to when it was not used. In addition to being able to thoroughly accomplish objectives, the increase in lab scores may be due to the decrease in student frustration and anxiety when trying to complete a lab in 46 minutes and the increase in the level of confidence.