

Grants for Teachers Application Form

Date: 3-20-05

Grant Title: The ABC Greenhouse Project

School: Jr. High/High School/ K-6 periodically

Grade Level: 7-12/ K-6 periodically

Content Area: Multiple Science areas, Art, English, Economics/Business,
Math, Health/Nutrition, Social Studies

Total Dollar Amount Requested:

1. What is the Major Educational need this grant addresses?

This grant would provide the plants, pots, soil and various garden tools required for the students to open and operate a greenhouse. All students should have an opportunity to experience hands on learning activities. The greenhouse would provide many educational lessons as well as develop living and social skills necessary for special needs students to be active participants in society.

The materials purchased for the greenhouse will be used in upcoming years and the sales from the student-grown plants will be put back into the greenhouse budget to fund the next year's project.

The greenhouse itself has been provided by the school district.

2. Approximately how many students will be affected by this project, both directly and indirectly?

Directly: At this time there are currently 80 special needs students enrolled in the Jr. High and High School who will benefit from this project. They will develop ideas for maintaining the greenhouse, managing a budget, and marketing their plants. Social skills will be developed as students learn to work with the public. Finally, students will learn how to prepare and cook the foods they have grown to further enhance their living skills.

Indirectly: The greenhouse will periodically be available for students in grades K-6 so that they might be taught the lessons the Jr. High/High school students have learned. These students will each have a plant to care for and maintain. The Jr. high/High school students will hold plant sales in the community. The greenhouse will use the funds from the plant sales to prepare for the next year's greenhouse needs. Therefore, the greenhouse will affect all of the special needs students in our school system for many upcoming years.

3. Describe your grant including methods, materials, and objectives.

Before working in the greenhouse students will research the plants and vegetables they will be growing. Students will collaborate on the production of the plants and the sales events they will hold. Students in the Living Skills class will cut out and sew aprons for use in the greenhouse.

Students will then decide what individual groups they will be working with. The areas for them to choose from include Budgeting and Record Keeping, Advertisement and Marketing, and Greenhouse Sales and Development. All students will be actively involved in the hands on activities provided in the greenhouse. The individual groups will work to plan and implement a greenhouse budget including, but not limited to, extra materials needed for craft projects, and flyers/posters to advertise community plant sales. Students will also need to keep careful records of items bought and sold, making sure that they can provide funding for the next year. The students involved in the advertising/marketing section will develop flyers/posters to promote greenhouse sales and complete research in the community to decide which crops will be in the most demand as well as easy to grow. The group will then decide what changes they feel would most benefit the greenhouse for the next year.

Students involved in sales and development will be actively involved with the public during the plant sales to help determine prices and manage money. Plant sales could be held up to three times a year for Fall, Winter, and Spring plants. These students will also be developing better ways of caring for plants and keeping records, noting which plants sold the most. Then they will report their findings and collaborate with the other groups to decide on the next year's needs.

All students will actively participate in the greenhouse growing process. Each student will have certain responsibilities regarding general plant care and maintenance, proper greenhouse environment, cleanliness, and safety. This entire project will be conducted under the advisement and supervision of the classroom teachers and the paraprofessionals.

4. Give a time schedule of implementation.

The greenhouse project will begin in the first few weeks of the school year. Students will plan out their project, deciding which plants will be needed for the Fall season. They will choose the type of plants they wish to grow and begin planting and caring for these. The students will plan for three plant sales to be held in the Fall, Winter, and Spring seasons. The planting, cultivating and harvesting of the greenhouse will be a continuous process, as will the individual group research, record keeping and marketing.

Anticipated time of implementation- from start to finish- will be approximately 8 months.

5. Detail your budget request. Include specific information about kinds of materials and equipment needed, sources of supply, and costs (including shipping and handling). If possible, list alternatives if full funding is not available.

Materials to be purchased from Wal-Mart

Material/pattern for aprons	\$30.00
2-All season water hose 100 ft @ \$19.48	\$38.96
2-Hose cart @ \$19.88	\$39.76
2-Watering Wands @ \$4.86	\$9.72
10-Gloves @ \$1.50	\$15.00
10-3 Piece Garden Tool set @ \$.97	\$9.70
100 seed packets (seed attached seed list)	\$97.00
3-Miracle Grow Potting Mix 1 Cu ft @ \$6.22	\$18.66
2-Organic Choice Potting mix for vegetables @ \$3.47	\$6.94
10-6 in plastic pots @ \$.97	\$9.70
8-8 in plastic pots @ \$.88	\$7.04
8-Hanging plastic pots @ \$.97	\$7.76
20-Jiffy Professional greenhouse @ \$6.24 pellets and tray 72ct	\$124.80
6-Jiffy strips/cups @ \$3.98	\$23.88
14-Jiffy Refill Pellets @ \$3.98	\$55.72
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Grand Total	\$494.64

6. What methods will be used for measuring the stated objectives, or what definite evaluation will you make to determine whether the grant was successful? (Please be specific).

Each student who participated in the greenhouse project, as well as parents and the community will complete an overall evaluation form. The teachers and paraprofessionals involved in the project will also complete an evaluation form. Participating teachers from K-6 will also be provided forms, as will their students who participated. (see attached).

Students will create a gardening journal or scrapbook of their greenhouse experience to be turned in periodically. Student planned and implemented plant sales will also be used as an evaluation tool.



Student Garden Survey

Name _____

Grade _____

1. Working in the greenhouse was... _____

2. Eating the things you grew in the greenhouse was... _____

3. Planting in the greenhouse was... _____

4. Taking care of my plant was... _____

5. Learning about plants was... _____

6. How do you feel about the greenhouse? _____

Please use the attached faces for younger students.





Parent Garden Survey

1. What has your student said or what have you observed concerning the student greenhouse?

2. On a scale of 1-4, rate how well the greenhouse has positively affected your child's

- _____ Enjoyment of school
- _____ Excitement about plants and learning
- _____ Academic growth.
- _____ Ability to apply lessons learned at home
- _____ Self esteem

(4- highly affected, 3-affected a lot, 2- slightly affected, 1-not affected).

4. What was your favorite aspect of the greenhouse project in regard to your child?

Least favorite.

Additional comments:



Student Greenhouse Evaluation

1. What was the most important lesson you learned from working on the greenhouse project?

2. Do you consider this project worthwhile and will you use the skills you learned outside of school?

3. What would you do differently the next time?

4. What do you think we should change about the project to improve it?

5. If we continue this project next year, what advice would you give your classmates?

6. Do you consider this learning experience to be a success or a failure? Why?

7. What was your favorite part of the greenhouse project?

8. What was your least favorite?

Plant/seed packets

Vegetables

Cabbage
Cucumber
Lettuce
Onion
Peppers (hot and Bell)
Pumpkin (miniature)
Spinach
Squash
Tomatoes
Zucchini

Flowers (annuals)

Acalypha pendula
Alyssum
Ageratum
Asclepias
Aster
Begonia
Flowering Kale
Celosia
Coleus
Cosmos
Dahlia
Geranium
Impatiens
Lantana
Marigolds
Morning glory
Pansy
Petunia
Snapdragon
Verbena
Zinnia

Flowers (perennials)

Chrysanthemum

Geranium

Hosta

Shasta Daisy

Bee balm

Poppy

Daylilies

Ferns

Hibiscus

Hydrangea

Phlox