

DATE: August 6, 2001
TIME: 60 minutes

GROUP: K-4
ACTIVITY: Tour of Greenhouses

**STONY HILL GARDENS
SAMPLE LESSON PLAN**

SUBJECT: Flower and Orchid Production

LESSON SUMMARY: Flower and Orchid Production requires very specialized techniques, equipment and buildings. Students will gain a foundation and basic understanding of soils, containers, watering, temperature control, light, disease and pest management necessary to achieve optimum plant growth.

OBJECTIVES:

- To gain familiarity with the process of growing plants using optimum conditions
- To introduce students to the fundamentals of greenhouse management
- Students will know how to properly handle and care for plants
- Students will learn of the diversity of orchids and other plants used for flowers

| TOPIC | DISCUSSION ACTIVITIES | TIME |
|-------------------|---|------------|
| LOCATION | History of the Business Family Business Safety While at Our Location Florist Business | 5 minutes |
| FACILITIES | Watering Systems Ventilation Greenhouse Construction & Materials Temperature Controls & Heating | 10 minutes |
| PLANTING | Soil Preparation Planting Dates Containers Selection of Kinds & Varieties of Plants | 15 minutes |
| MANAGEMENT | Watering Monitoring Growth Fertilizer Insect Control Disease Control Spacing, Light & Location | 10 minutes |
| MARKETING | Wholesale and Retail Trade Shows Additional Activities | 10 minutes |
| WRAP UP AND OTHER | Discussion Questions Attracting Butterflies & Beneficial Insects | 10 minutes |

EXERCISE:

1. List the various plants grown at this agricultural business.
2. Discuss what factors will influence the growth of plants.
3. Discuss why orchids require hand pollination.
4. Discuss why greenhouses are better suited for plants than people.

- STONY HILL GARDENS CONTINUED -

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RESOURCES:

Stony Hill Gardens, <http://www.stonyhillgardens.com/>

*** University of Florida Cooperative Extension Service Publications <http://edis.ifas.ufl.edu/>

Insect Management Suggestions for Commercial Orchid Production

*** Rutgers Cooperative Extension Publications <http://www.rce.rutgers.edu/>

FS147 Garden Chrysanthemums: Hardiness Evaluation

FS719 Soil Fertility Test Interpretation

E221 Creating a Master Plan for Greenhouse Operation

*** Colorado State University Cooperative Extension Information On-Line <http://www.ext.colostate.edu/>

5.550 Beneficial Insects and Other Arthropods

5.504 Attracting Butterflies to the Garden