

## Welcome to Adventures in Horticulture!

The purpose of *Adventures in Horticulture* is to:

- ★ provide teachers with specialized instruction through teacher training
- ★ enhance elementary- and secondary-level science curricula
- ★ introduce students and teachers to ecology and the plant sciences through innovative hands-on activities and cross-curricular instruction
- ★ encourage children to gain an awareness of and appreciation for the natural world

### Get your kids ready for Science MCAS!

These in-classroom, hands-on field trips put into practice specific *skills of inquiry and learning standards* of the Massachusetts Curriculum Frameworks. *And they're fun!*

**Each participating teacher receives a pre-visit activity packet that enhances and extends the workshop curriculum and experience. Each student will have his or her own plant or project by workshop's end.**

The content of each program is adjusted to suit the particular grade level and needs of your group.

## School Workshops

*I have been to many, many workshops and this one, by far, was the best. I have gained more knowledge and enjoyed every minute. Not only is Dina an expert in her field, she is a delight in her style of teaching, explaining and hands-on approach.*

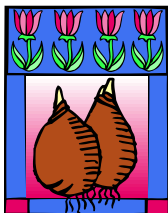
— Maureen Lochman,  
Teacher Training Participant

*Thank you for an enriching experience—one that added to our curriculum unit... I enjoyed every bit of it—and so did my students!*

— Maureen Hammel,  
School Workshop Participant

## Fall/Winter

### Bulbs: Big Surprises In Small Packages



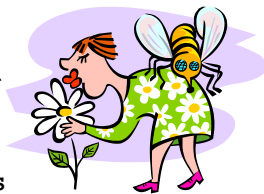
*For All Grade Levels*

Bulbs are highly specialized plants of economic importance to humans. Students will discover the parts of a bulb, then plant flowering bulbs to cultivate, study, and enjoy.

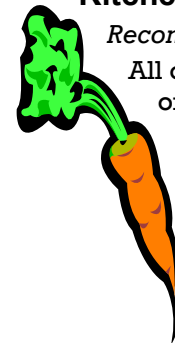
### Making Sense of Nature

*Recommended for K-3 and Special Education*

Nature offers a cornucopia of textures, smells, colors, and sounds. Students will experience an array of plants through sensory activities, as they create their own botanical wall hangings.



### Kitchen Botany



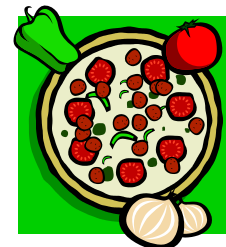
*Recommended for Grades K-6*

All of our food is obtained directly or indirectly from plants. After constructing plants from their various parts, students will examine assorted fruits and vegetables to determine which parts of the plants we eat. (Then we will eat them!) Everyone will plant a vegetable to grow as a houseplant.

### Herbs and Spices

*Recommended for Grades K-12*

Herbs and spices have been valued and used since ancient times for fragrance, flavoring, medicine and



cosmetics. Find out about their rich history, which plant parts are used, and where they come from. Students will plant herbs to cultivate and use at home.

### Seed Travelers

*Recommended for Grades K-5*

A seed is a baby plant equipped to travel, with its own sources of protection and food. Fall is the perfect time to explore the diversity of seed shapes, colors, sizes and dispersal methods. Students will participate in a variety of seed-related activities, starting in the classroom and proceeding onto your school grounds. Back in the classroom, each student will plant nutritious sprouts to take home. **This is a 90-minute program that can be tailored to one hour. (Teachers can take their students outdoors to collect seeds at a later time.)**

## Spring

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### Tropical Rainforests

Recommended for  
Grades 3-7



The tropical rainforest is a diverse and complex ecosystem. Students will discover its ecological levels, the plant and animal interactions within them, and the importance of rainforests to the world community. Each student will then plant a mini-rainforest.

### Mysteries of the Deserts

Recommended for Grades 3-7



What makes a desert a desert? Why do desert plants grow in such weird, mysterious ways? Students will learn how scientists define an area as a desert and study the adaptations of plants and animals to arid conditions. Each will plant a succulent to take home.

### Cloning Plants

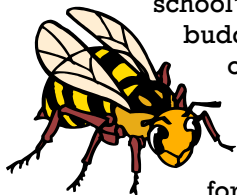
Recommended for Grades 3-7

Did you know that plants have the amazing ability to regenerate from a single cell? Students will learn how genetically identical plants are propagated through asexual reproduction, and will create their own "plantensteins" to take home.

### Woodland Wonders

Recommended for Grades 3-7

This outdoor, hands-on field study in your school's woodland area affords budding ecologists the opportunity to collect and analyze data from the Northeast forest. Plant characteristics, climate, forest structure and the interaction of its components will be observed.



## REGISTRATION INFORMATION

- Fall Programs are one hour long.  
Fee: \$165/class
- Spring Programs are 90 minutes long.  
Fee: \$195/class
- Advance registration and payment are required for all programs.  
*Please call early and have several alternative dates in mind.*
- A separate appointment is required for each school class, which may have a maximum of 30 students.
- A ratio of one adult per 10 children is recommended for each program.
- Most materials are included in your fee. You may be asked to supply items such as pencils or chart paper. Program dates may be limited by the availability of materials. Mileage for long distances may be charged.
- **We provide teacher training and other programs tailored to suit your needs.**

To register or for more information, call **(978) 448-9311**.

*Adventures in Horticulture!* are presented by **Dina M. Samfield, M.S.** in Horticultural Science. Ms. Samfield is an educator with over 16 years experience developing and teaching curricula, programs and activities for students, teachers and adults of all ages and skill levels. She has been a public middle and high school science teacher and worked for 10 years as an education director for botanic gardens.

Ms. Samfield is known for being innovative in the development of interactive, cross-disciplinary, hands-on, inquiry-based science lessons and special programs. She is recognized and valued as a creative, enthusiastic teacher who actively engages participants in the educational process.

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School and Professional  
Development Programs  
for Teachers and Students

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2006 - 2007



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