



## Floriculture CDE

### Purpose

The purpose of the Floriculture career development event is to stimulate the study of and interest in the production and retailing of plants and foliage. Through participation in this event, students will be able to identify floriculture and bedding plant materials as well as characteristics of unhealthy plants due to pest, nutritional, mechanical, or chemical injury.

Understanding principles and developing skills of floral design, identification of appropriate supplies and equipment for the flower shop and greenhouse, and demonstration of communication skills necessary for successful employment in the floriculture industry are skills attained in this event.

### Sponsor

North Carolina State Florists Association currently sponsors this event.

### Superintendent

The superintendent for this event is Mr. Andy VonCanon, Western Region Agricultural Education Coordinator, Mountain Horticulture Crops Research and Extension Center, 455 Research Drive, Mills River, NC 28759, Phone: 828-553-6296 Fax: 828-684-8715 Email: andy\_voncanon@ncsu.edu

### Eligibility

This event is open to all FFA chapters and FFA members in good standing. FFA members may not participate in a career development event that leads to a state level event after July 1, following their high school/early college graduation. Members winning a previous state event in this area or that have participated in a previous national

event in this area are ineligible. This event will be held at the North Carolina State FFA Convention.

The top three individuals in the regional event are eligible to participate in the state event as individuals regardless of their team placing.

**Teams shall consist of three or four members. Four scores will count towards the team total (A three-member team will earn a zero for the 4<sup>th</sup> score).** No alternates are allowed in state events. Any alternate found participating in a state event will result in team disqualification.

**The North Carolina FFA Association, in keeping with the FFA mission and purposes, does not permit the use of tobacco products at any FFA facility or at any FFA activity.**

The use or possession of cellular phones, Personal Digital Assistants (PDAs) or any other mobile electronic communication device is prohibited during any state-level career development event. Any violation of this rule by any team member will result in total team disqualification.

FFA members participating in career development events that require the use of calculators may only use non programmable/graphing calculators that do not have the ability to communicate with other calculators. Calculators will be screened prior to the start of a CDE for acceptability. Students caught using data stored on a calculator or communicating with other calculators will result in a total team disqualification for the event.

Any member found cheating in any state-level career development event will result in total team disqualification for that event.



At the North Carolina FFA State Convention, participation in more than one FFA CDE event is permitted as long as events are not being held concurrently and no special provisions are required to facilitate participation with the exception that parliamentary procedure and public speaking and parliamentary procedure and Creed speaking which are held concurrently will allow dual participation and special provisions for flighting.

### Dress Code

A ten percent reduction in the total team score will be taken if a participant violates the dress code. Participants are allowed to wear long pants, an appropriate shirt with a collar or an appropriate high school or FFA t-shirt.

### Procedures for Administering the Event

The general knowledge test and the identification activity will be the same for both the Floriculture and Nursery/Landscape Events at the regional level. At the state level, the identification for both events will be the same. There will be separate written tests at the state-level for the events.

Under no circumstances will any participant be allowed to touch or handle plant materials during the identification portion of the event. Any infraction of this rule will be sufficient cause to give that individual a zero on that phase of the event.

Any communication between participants during the event that would constitute giving help to that individual would result in both individuals getting a zero on that phase of the event. If an individual is suspected of copying someone else's paper, the participant will be given a personal quiet warning and if cheating continues, the one

copying would be given a zero on that phase of the event and total team disqualification.

To facilitate the holding of the scorecards, participants are allowed and encouraged to bring and use clipboards. These should be submitted to an event official to determine that they are free of written materials that might help a participant in the event.

Identification papers, tests and practicum scorecards will be different colored papers for each of the two horticulture events. Event coordinators should provide a colored scorecard to be attached to the three judges' scorecards for the average score to be recorded on for the regional and state events.

### Regional Event Set-Up

The host school will have the responsibility in setting up the career development event, choosing career development event officials, judges and materials according to the following:

#### **Part 1: Identification (250 points)**

Twenty-five plants will be chosen from the current list of ID plants and each plant will be numbered. Each contestant will be assigned a plant to begin the identification portion of the contest. Each contestant will remain at each plant for one minute then progress on to the next plant. No contestant will be permitted to return to a plant for a second time. Each plant will be worth 10 points and no plant will be used twice. Event officials will grade papers. Grading will be done by giving 10 points for each plant correctly identified. If it is observed that a participant uses the same number on their paper twice, neither number will be counted correct. 25 minutes.

#### **Part 2: Knowledge Test (250 points)**

A written knowledge test will be made up by the state staff or the horticulture staff at NC



State University consisting of 25 multiple choice questions. The same test will be used in both the Floriculture and Nursery/Landscape Events. The answer to these questions must be available in at least one of the references on the event reference list. The contestants will be given 25 minutes to complete the test and each question will be valued at 10 points. Event officials will grade the papers. Copies of written tests will not be made available to teachers until the summer following the events. 25 minutes.

### Part 3: Practicum (50 points)

Each participant will make a satin bow of #9 ribbon that would be appropriate to use on a 7" wide azalea pot of mums. 6 minutes.

Provided:

#20 floral wire

a bolt of #9 ribbon

floral tape

6" wired pick shears scissors

Three judges will observe and independently judge each contestant as they work and on their finished product using the score card below. The three judges will average their scores and that average will become the contestant's score for the practicum.

(Reference: Floral Design and Marketing by Gary Anderson; Ohio Agricultural Curriculum Service). The criteria for scoring the regional practicum is as follows:

### Scoring Practicum

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*Maximum Score*

50

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Tape Wire

10

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Expertise in Making a Bow

20

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Putting Bow on Pick

5

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Overall Appearance of Finished Product

15

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### Regional Scoring

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*Maximum Score*

550

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Identification

250

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Knowledge Test

250

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Practicum

50

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### Cut Flower ID Specimens

If cut flowers are used as ID portions of this event, the flower and foliage must be used on these specimens.

### State Event Set-Up

The State FFA Coordinator or horticulture consultant shall be responsible for setting up the event, choosing event officials, judges and materials according to the following:

#### Part 1: Identification (500 points)

Fifty plants will be chosen from the current list of ID plants and each plant will be numbered. Each participant will be assigned a plant to begin identification. Each participant will remain at each plant for one minute then progress on to the next plant. No participant will be permitted to return to a plant a second time. Handling the plant will result in the student receiving a zero on plant ID. Grading will be done by giving 10 points for each plant correctly identified. If it is observed that a contestant uses the same number on their ID paper twice, neither number will be counted correct resulting in a penalty for using the same number. Teachers will grade the papers but should not grade papers of their own team. 50 minutes.

#### Part 2: Knowledge test (500 points)

A written test will be made up by the state staff or horticulture staff at NC State University. The test will consist of 50 multiple-choice questions. The answers



must be found in at least one of the references on the event reference list. The test will consist of 30 general horticulture questions and 20 questions specific to the area of floriculture. The participants will be given 50 minutes to complete the test and each question will be valued at 10 points. Copies of written tests will not be made available to teachers until the summer following the events. No question should be used two years consecutively. 50 minutes.

### Part 3: Practicum (100 points)

Each participant will be provided a potted flowering or foliage plant and should prepare it for sale in a florist shop. All materials needed to prepare the plant for sale will be provided. The ribbon needed will not be pre-cut and the student will work off the bolt of ribbon in making the bow for the plant. 10 minutes per contestant.

Three judges will observe the contestants and independently record their scores of each contestant's work using the scorecard below. These scores will be averaged and become the contestant's score for this practicum. (Reference: Floral Design and Marketing by Gary Anderson; Ohio Agriculture Curriculum Service).

### Scoring Practicum

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Maximum Score

100

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Use of Foil

30

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Make up of Bow

40

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Placement of bow & ribbon on pot

20

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General Appearance

10

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### Part 4: Problem Solving (100 points)

Each student will be given a 10-question multiple choice problem solving test concerning floral plants, products, or

situations. Each question will be worth 10 points. Event officials will grade these papers. There should not be any two-part questions where the answer in one question has an impact on the answer for a subsequent question.

Some examples of these types of questions are as follows:

Example 1: A student has a plant that has an insect problem.

Question #1 could ask: What is the problem?

- A. Mealy bugs
- B. Mites
- C. White flies
- D. Aphids

Question #2 could ask: What is the best solution to the problem on the plant in question #1?

- A. Use Roundup
- B. Use A Rest
- C. Use Methyl Bromide
- D. Use Talstar

Example 2: Sitting before you is a flower arrangement made in a florist shop for delivery to a customer. There is a major problem with the arrangement.

Question #3 could ask: What is the solution to the major problem with the arrangement?

- A. Change colors of flowers to make the colors more compatible.
- B. Move larger flowers to the bottom of the arrangement.
- C. Add additional greenery.
- D. Add a focal point

### Times Summary

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|                 |              |
|-----------------|--------------|
| Identification  | 50           |
| minutes         |              |
| Knowledge Test  | 50           |
| minutes         |              |
| Practicum       | 10 mins. per |
| contestant      |              |
| Problem Solving | 30           |
| minutes         |              |

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## State Scoring

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Maximum Score

1200

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Identification

500

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Knowledge Test

500

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Practicum

100

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Problem Solving

100

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## Procedure for Determining the State Event Winner When Scores are Tied

In the event a tie score exists, apply the following methods in sequential order until the tie is broken:

1. Compare the total team scores for the problem-solving component and the higher scoring team is the winner.
2. If this method fails compare the total team scores for the identification component and the higher scoring team is the winner.
3. If this method fails compare the total team scores for the knowledge test component and the higher scoring team is the winner.
4. If this method fails to break the tie, co-winners will be declared and a run-off event will be held to determine which team will represent North Carolina at National FFA Convention. The run-off event will follow the same rules as the state event.

**Special Note:** In the event a tie exists between first, second or third place teams on the regional level, the tied teams will be allowed to participate in the state event.

## State Awards

The awards for the state event will be presented annually at the state FFA

convention to include a team 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> place plaque and a travel monetary award. The high scoring individual will receive a plaque.

## National Career Development Event Participation

State winning teams advancing to the national career development event will be automatically registered for the national event. It is the responsibility of the FFA Chapter Advisor to complete all necessary national certification and waiver forms and return them to the state FFA Coordinator by the assigned due date.

State winning CDE teams that choose not to participate at the national level should contact the state office by Sept. 1 prior to national convention. Teams that fail to inform the state office prior to Sept. 1 will be ineligible to participate in that same CDE for the next year (chapters may appeal to the State FFA Board of Directors). Teams that do not compete at the National Convention will be required to pay back the cash travel award.

## References

A Guide to Field Identification-Trees of North America, C. Frank Brockman, 168 Golden Press, New York.

American Standard For Nursery Stock, Published by the American Association of Nurserymen, Inc., 1986, 1250 I Street, Suite 500, Washington, D.C. 20005.

Floral Design and Marketing, Gary Anderson, The Ohio State University, 2120 Fyffe Road. Columbus. Ohio. 43210.

Landscape Plants of the Southeast, Halfacre, Gordon, The Sparks Press.



\*Carolina Lawns, Circular Ag-69, North Carolina Extension Service.

\*Horticulture Today, by Riedel and Driscoll, Goodheart Wilcox Publishers, 2017.

\*Introductory Horticulture, Third Edition, by Riley and Shry, Delmar Publishers, 1987.

\*Landscaping: Principles and Practices, Third Edition, by Ingels, Delmar Publishers, 1987.

\*Principles of Floral Design: An Illustrated Guide, by Scace and DelPrince, Goodheart Wilcox Publishers, 2015.

\*Working in Horticulture, by Moore and Richardson, Gregg/McGraw Hill Book Co., 1980. Activity Guide, Teacher's Manual.

\*These references will be used primarily as sources for test items. Others are for use by teachers primarily.



## Official Plant Identification List NC FFA Floriculture & Nursery/Landscape Contests

Plant specimens will be numbered 1-25 for the Regional Contest and 1-50 for the State Contest. Contestant is to write the appropriate number in the space beside the name of the specimen.

Contestant Name \_\_\_\_\_ Contestant # \_\_\_\_\_ Score \_\_\_\_\_

- |   |   |
|---|---|
| _____ Abelia X grandiflora/Glossy Abelia  | _____ Crassula ovata/Jade Plant                                   |
| _____ Acer palmatum/Japanese Maple  | _____ Crocus sativus/Crocus                                       |
| _____ Acer platanoides/Norway Maple   | _____ Cyclamen X persicum cv./Cyclamen                            |
| _____ Acer rubrum/Red Maple   | _____ Dianthus caryophyllus cv./Carnation                         |
| _____ Ageratum mexicanum/Ageratum   | _____ Dieffenbachia maculata/Dumbcane                             |
| _____ Aglaonema commutatum/ Aglaonema   | _____ Dizygotheca elegantissima 'Castor/<br>False Aralia          |
| _____ Ajuga reptans/Ajuga   | _____ Dracaena cincta/Red Edge Dracaena                           |
| _____ Alstroemeria aurantiaca/Peruvian Lily   | _____ Dracaena deremensis 'Warneckii'/Warneckii Dracena           |
| _____ Antirrhinum majus cv./Snapdragon  | _____ Dracaena fragens "Massangeana"/Corn Plant                   |
| _____ Anthurium x andraenum/Anthurium   | _____ Echeveria cv./Hens and Chickens                             |
| _____ Araucaria heterophylla/Norfolk Island Pine                                      | _____ Echinaceae purpurea/ Cone Flower                            |
| _____ Asparagus densiflorus 'Sprengerii'/<br>Sprengerii Fern                          | _____ Elaeagnus pungens/Thorny Elaeagnus                          |
| _____ Asparagus setaceus/Plume Asparagus Fern   | _____ Epipremnum aureum cv./Golden Pothos                         |
| _____ Astilbe cv./Astilbe Hybrids   | _____ Eucalyptus polyanthemus/Silver Dollar Gum                   |
| _____ Aucuba japonica/Japanese Aucuba   | _____ Euonymus alata/Winged Euonymus                              |
| _____ Begonia X semperflorens-cultorum/<br>Wax Begonia                                | _____ Euonymus japonica or 'Variegata'/<br>Evergreen Euonymus     |
| _____ Berberis thunbergii/Japanese Barberry   | _____ Euphorbia pulcherrima cv./Poinsettia                        |
| _____ Betula nigra/River Birch  | _____ Ficus benjamina/Weeping or Benjamin Fig                     |
| _____ Buddleia davidii/Butterfly Bush   | _____ Ficus elastica 'Decora'/Decora Rubber Plant                 |
| _____ Buxus microphylla var. japonica/ _____<br>Japanese Boxwood                      | _____ Fittonia verschaffeltii/Nerve Plant                         |
| _____ Buxus sempervirens/Common Boxwood   | _____ Forsythia X intermedia/Border Forsythia                     |
| _____ Caladium x hortuanum cv./Fancy Leaved Caladium                                  | _____ Freesia x hybrid/Freesia                                    |
| _____ Camellia japonica cv./Common Camellia   | _____ Fuchsia X hybrida/Fuchsia                                   |
| _____ Camellia sasanqua/Sasanqua Camellia   | _____ Gardenia jasminoides/Gardenia                               |
| _____ Canna X generalis/Canna   | _____ Gerbera jamesonii/Gerber Daisy                              |
| _____ Catharanthus roseus/Madagascar Periwinkle                                       | _____ Gibasis pellucida/Tahitian Bridal Veil                      |
| _____ Cattleya cv./Cattleya Orchid Hybrid   | _____ Ginkgo biloba/Ginkgo  |
| _____ Celosia argentea cv./Cockscomb  | _____ Gladiolus X hortulanus/Gladiolus                            |
| _____ Cercis canadensis/Eastern Red Bud<br>- Judas Tree                               | _____ Gleditsia tricanthos var. inermis/<br>Thornless Honeylocust |
| _____ Chamaecyparis pisifera "Gold Mop"   | _____ Gynura aurantiaca/Velvet Plant                              |
| _____ Chamaedorea elegans/Parlor Palm   | _____ Gypsophila elegans cv./Babys Breath                         |
| _____ Chlorophytum comosum cv./Spider Plant   | _____ Hedera helix/English ivy                                    |
| _____ Chrysanthemum morifolium or Dendranthema<br>X grandiflora/Florist Chrysanthemum | _____ Hemerocallis cv./Day Lily                                   |
| _____ Chrysanthemum X superbum/Shasta Daisy   | _____ Hibiscus sp./Hibiscus                                       |
| _____ Cissus rhombifolia "Mandaiana"/Grape Ivy  | _____ Hippeastrum cv./Amaryllis                                   |
| _____ Clematis X jackmanii/Clematis Hybrids   | _____ Hosta sp./Hosta   |
| _____ Codiaeum variegatum var. pictum/Croton  | _____ Hoya carnosa/Wax Plant                                      |
| _____ Coleus X hybridus/Coleus  | _____ Hydrangea macrophylla/French Hydrangea                      |
| _____ Cornus florida/Flowering Dogwood  | _____ Iberis sempervirens/Evergreen Candytuft                     |
| _____ Cornus kousa/Chinese Dogwood  | _____ Ilex X attenuata 'Fosteri'/Fosteri Holly                    |
| _____ Cotoneaster dammeri/Bearberry   | _____ Ilex X attenuata 'Savannah'/Savannah Holly                  |
| _____ X Cupressocyparis leylandii/Leyland Cypress                                     | _____ Ilex crenata "Compacta"/Compacta Holly                      |
|   | _____ Ilex x "Nellie R. Stevens"/Nellie R. Stevens holly          |
|   | _____ Ilex crenata 'Helleri'/Helleri Holly                        |
|   | _____ Ilex cornuta "Carissa"/Carissa Holly                        |



- \_\_\_\_\_ Ilex vomitoria 'Nana'/Dwarf Yaupon
- \_\_\_\_\_ Impatiens/Impatiens Cultivars and Hybrids
- \_\_\_\_\_ Iris X germanica var florentina/Bearded Iris
- \_\_\_\_\_ Iris xiphium/Dutch Iris
- \_\_\_\_\_ Juniperus conferta/Shore Juniper
- \_\_\_\_\_ Juniperus horizontalis 'Plumosa,' 'Bar Harbor,'  
or 'Wiltonii' /Creeping Juniper
- \_\_\_\_\_ Kalanchoe blossfeldiana/Kalanchoe
- \_\_\_\_\_ Lagerstroemia indica cv./Crape Myrtle
- \_\_\_\_\_ Lantana l./Lantana
- \_\_\_\_\_ Ligustrum japonicum cv./Japanese Privet
- \_\_\_\_\_ Limonium spp.
- \_\_\_\_\_ Liquidambar styraciflua/Sweetgum
- \_\_\_\_\_ Liriope muscari/Liriope(Green or Variegated cv.)
- \_\_\_\_\_ Loropetalum chinensis/Chinese fringe flower
  
- \_\_\_\_\_ Magnolia grandiflora/Southern Magnolia
- \_\_\_\_\_ Magnolia X soulangiana cv./  
Saucer Magnolia
- \_\_\_\_\_ Malus sp. or cv./Flowering Crabapple
- \_\_\_\_\_ Maranta leuconeura var.kerchoviana/  
Prayer Plant
- \_\_\_\_\_ Myrica cerifera/Wax Myrtle
- \_\_\_\_\_ Nandina domestica/Heavenly Bamboo  
Or Dwarf Nandina
- \_\_\_\_\_ Narcissus spp.
- \_\_\_\_\_ Nephrolepis exaltata cv./Boston Fern
- \_\_\_\_\_ Ophiopogon japonicus/Mondo Grass
- \_\_\_\_\_ Osmanthus sp.
- \_\_\_\_\_ Pachysandra terminalis/Japanese Pachysandra
- \_\_\_\_\_ Paeonia sp./Peony
- \_\_\_\_\_ Pelargonium X hortorum/Geranium
- \_\_\_\_\_ Pelargonium peltatum/Ivy Leaf Geranium
- \_\_\_\_\_ Pennisetum alopecuroides/Fountain Grass
- \_\_\_\_\_ Peperomia caperata 'Emerald Ripple'/  
Emerald Ripple Peperomia
- \_\_\_\_\_ Peperomia obtusifolia/Peperomia
- \_\_\_\_\_ Petunia hybrida/Petunia
- \_\_\_\_\_ Phalaenopsis cv./ Phalaenopsis (Butterfly) Orchid
- \_\_\_\_\_ Philodendron scandens var. oxycardium/Parlor Ivy
- \_\_\_\_\_ Picea abies/Norway Spruce
- \_\_\_\_\_ Pieris japonica/Japanese Andromeda
- \_\_\_\_\_ Pinus mugo var. mugo/Mugo Pine
- \_\_\_\_\_ Pinus strobus/Eastern White Pine
- \_\_\_\_\_ Platanus x acerifolia/London Plane Tree
- \_\_\_\_\_ Plectranthus australis/Swedish Ivy
  
- \_\_\_\_\_ Prunus laurocerasus 'Zabeliana'/Zabel Cherry  
Laurel
- \_\_\_\_\_ Prunus serrulata 'Kwanzan'/Japanese  
Flowering Cherry
- \_\_\_\_\_ Pyracantha coccinea/ Scarlet Firethorn
- \_\_\_\_\_ Pyrus calleryana 'Bradford'/Bradford Pear
- \_\_\_\_\_ Quercus falcata/Southern Red Oak
  
- \_\_\_\_\_ Quercus nigra/Water Oak
- \_\_\_\_\_ Quercus palustris/Pin Oak
- \_\_\_\_\_ Quercus phellos/Willow Oak
- \_\_\_\_\_ Raphiolepis indica/Indian Hawthorn
- \_\_\_\_\_ Rhododendron catawbiense/Catawba  
Hybrid Rhododendron
- \_\_\_\_\_ Rhododendron kiusianum or Rhododendron  
obtusum japonicum/Azalea
- \_\_\_\_\_ Rosa spp.
- \_\_\_\_\_ Rumohra adiantiformis/Leatherleaf Fern
- \_\_\_\_\_ Saintpaulia ionantha/African Violet
- \_\_\_\_\_ Salvia splendens/Salvia
- \_\_\_\_\_ Schefflera actinophylla/Schefflera
- \_\_\_\_\_ Schefflera arboricola/Dwarf Schefflera
- \_\_\_\_\_ Schlumbergera bridgesii/Christmas Cactus
- \_\_\_\_\_ Schlumbergera truncata/Thanksgiving cactus
- \_\_\_\_\_ Sedum spurium cv./Sedum
- \_\_\_\_\_ Spathiphyllum cvs./Peace Lily
- \_\_\_\_\_ Syngonium podophyllum/Nepthytis or  
Arrowhead Vine
- \_\_\_\_\_ Tagetes species/Marigold
- \_\_\_\_\_ Taxus cuspidata/Japanese Yew
- \_\_\_\_\_ Thuja occidentalis/American Arborvitae
- \_\_\_\_\_ Tradescantia zebrina/Purple Wandering Jew
- \_\_\_\_\_ Tsuga canadensis/Canadian Hemlock
- \_\_\_\_\_ Tulipa spp.
- \_\_\_\_\_ Verbena hybrida/ Garden Verbena
- \_\_\_\_\_ Viola X wittrockiana/Pansy
- \_\_\_\_\_ Zelkova serrata/Zelkova
- \_\_\_\_\_ Zinnia elegans/Zinnia



**50 POINTS—6 MINUTES**

**FLORICULTURE PRACTICUM (regional)**

Student # \_\_\_\_\_ Student Name \_\_\_\_\_

Chapter Name \_\_\_\_\_

Taping Wire 10 points \_\_\_\_\_

Expertise in Making a Bow 20 points \_\_\_\_\_

Putting Bow on Pick 5 points \_\_\_\_\_

Overall Appearance of Finished Product 15 points \_\_\_\_\_

**TOTAL** \_\_\_\_\_