

# FLORICULTURE

## **Purpose**

The State Floriculture Contest is designed to stimulate student interest in production and retailing of flowers, plants, and foliage in the secondary agriculture curricula.

## **Objectives**

Students participating in the State Floriculture Contest should be able to:

- I. Identify floriculture and bedding plants commonly grown in Missouri.
- II. Identify unhealthy plants due to pest, nutritional, mechanical, or chemical injury.
- III. Understand principles of and develop skills underlying propagation, growth requirements, growing techniques, harvesting, marketing, and maintenance of established floriculture plants

### Crosswalk with Show Me Standards

Objectives – Students participating in the Career Development Event should be able to:		Show-Me Standards	
		Knowledge Standards (Content Areas)	Performance Standards (Goals)
1.	Identify floriculture and bedding plants commonly grown in Missouri.	MA.1, MA.2	1.9
2.	Identify unhealthy plants due to pest, nutritional, mechanical, or chemical injury.	SC.3, SC.5	3.4, 3.6, 3.8
3.	Understand principles of and develop skills underlying propagation, growth requirements, growing techniques, harvesting, marketing, and maintenance of established floriculture plants.	FA.1, FA.2	4.3, 4.4, 4.5, 4.7, 4.8

CORRESPONDING SECONDARY AGRICULTURE CURRICULUM			
<b>Course and/or Curriculum:</b>	Greenhouse Operation and Management	<b>Unit(s):</b>	All Units
	Floriculture		All Units

## Event Format

The contest will consist of three components: General Knowledge, Identification, and Practicum.

1. General Knowledge Examination
  - a. This portion of the contest will test the contestants' knowledge and understanding of production and retailing of floriculture crops and the selection, use, care, and culture of these plants in the home environment.
  - b. It will consist of 75 questions (25 from *Floristry* and 50 from *Greenhouse Management*) covering the following general topics:
    - (1) Greenhouse design and equipment
    - (2) Basic plant growth and function
    - (3) Plant propagation
    - (4) Plant production technique
    - (5) Diseases and insects
    - (6) Basic business management.
3. Identification
  - a. Each contestant will be required to identify 60 specimens from the Floriculture Plant Identification List.
  - b. Each specimen will be identified by number.
  - c. Contestants will need to match the specimen with the correct name on the answer sheet.
  - d. Students will be allowed 50 seconds per plant as well as 5 minutes at the end of the rotation to go back and review any plant(s) and bubble their scansheet.
  - e. **Duplicate samples may not be used in any identification portion of the event.**
4. Disorders
  - a. Plant Disorders and Diagnosis - Each contestant will complete this practicum of five stations including diagnosing disorders and selecting the most correct remedy. Students will be allowed 2 minutes per plant disorder, as well as 5 minutes at the end of the rotation to go back and review and bubble their scansheet.
5. Tool Identification
  - a. Floriculture Tool and Product Identification – Each contestant will identify 25 items selected from the Floriculture/Greenhouse Items list (Student Copy 2). Students will be allowed 50 seconds per tool as well as 5 minutes at the end of the rotation to go back and review any tool(s) and bubble their scansheets.  
**Duplicate samples may not be used in any identification portion of the event.**
6. Practicums
  - a. Pricing a Floral Arrangement-Each contestant will answer 10 multiple choice questions on the pricing of a floral arrangement. Each question will be worth 5 points each. All parts of the cost, including containers, must be given to the contestant. Questions may be asked on floral concepts, cost of parts of the arrangement, or cost of the arrangement as a whole.
    - I. A live arrangement may be used, but each flower to be used in the live arrangement must be on the floriculture identification list.
    - II. A picture of an arrangement may be used, (such as the FTD Book) with or without flowers used in the contest identification list.

- b. Chemical Problem Solving-Each contestant will answer 10 multiple choice questions at five (5) points each. Questions will be based on examples found in the National Pesticide Applicator Certification Core Manual (MX328), Chapter 12 “Calculating Dilutions and Site Size. Questions may be stand alone or progressive in nature. \* “None of the Above” should not be used as a possible multiple choice answer. Questions should reflect the greenhouse or floriculture industry.

### Event Scoring

<b>Event</b>	<b>Points</b>	<b>Time</b>	<b>Rotation</b>
General Knowledge (75 questions@ 4 pts each)	300	1 hour	Rotation 1
Identification (60 specimens @ 5 pts each)	300	1 hour	Rotation 2
Plant Disorders & Diagnosis	50	30 minutes	Rotation 3a
Tool Identification	50	30 minutes	Rotation 3b
Pricing a Floral Arrangement Practicum (10 @ 5 points each) & Chemical Problem Solving (10 @ 5 points each)	100	1 hour	Rotation 4
<b>TOTAL</b>	<b>800</b>		

1. Tie scores among teams in all events should be broken using the high individual team member's score. In case the scores are tied, the scores of the second high individual on each team should be used.

### Event Rules and Regulations

1. Each team may consist of three or four members. The top three individual scores will make up the team score.
2. Contestants will not be allowed to communicate with anyone other than contest officials while the contest is in progress. Failure to observe this rule may result in elimination from the contest.

## References

Catalogs from mail order seed companies are good sources for information. They can be obtained free of charge from most companies. Farm and garden magazines are full of addresses for these companies in the late winter of every year. Supply catalogs such as: Hummert, Stuppy or similar catalogs can be obtained free of charge or for a minimal fee from most supply companies. Additionally, the National FFA CDE Handbook for Floriculture provides several references that could be utilized in the training of teams.

Greenhouse Operation and Management (Instructor and Student Reference) (2002). Available <https://dese.mo.gov/college-career-readiness/career-education/agricultural-education/agricultural-education>

Riley & Shry (8<sup>th</sup> Edition). Introductory Horticulture. Albany, New York:  
<http://www.cengage.com/us/>

Floristry (Instructor and Student Reference) (1996). IML, Available  
<https://dese.mo.gov/college-career-readiness/career-education/agricultural-education/agricultural-education>

National FFA Floriculture CDE Classroom Guide. Available at: <https://www.ffa.org/cde-lde-classroom-resources>

National Pesticide Applicator Certification Core Manual (MX328), ***Appendix C – Conversions & Calculations AND pages 169-171 – Calculating Areas & Calculating Application Rates.***

Floriculture Appendix – DESE CDE Website <https://dese.mo.gov/college-career-readiness/career-education/agricultural-education/cde-handbook>

## Forms

See following: Training Reference 1, 2, 3 & Student Copy 1, 2 & 3.

## FLORICULTURE PLANT IDENTIFICATION LIST

1	African Violet	Saintpaulia ionantha cv.
2	Ageratum	Ageratum houstonianum
3	Aglaonema	Aglaonema commutatum
4	Aluminum Plant	Pilea cadierei
5	Alyssum	Lobularia maritima
6	Amaryllis	Hippeastrum hybrid cv.
7	Annual Vinca	Catharanthus roseus
8	Artillery Plant	Pilea microphylla
9	Asiatic or Oriental Lily	Lilium hybrid cv.
10	Asparagus "Fern"	Asparagus setaceus
11	Astilbe	Astilbe hybrid cv.
12	Azalea	Rhododendron hybrids
13	Baby's Breath	Gypsophila elegans cv.
14	Barrel Cactus	Echinocactus cv.
15	Benjamin Fig	Ficus benjamina cv
16	Big Leaf Hydrangea	Hydrangea macrophylla
17	Bird of Paradise	Strelitzia reginae
18	Blushing Bromeliad	Neoreglia carolinae 'Tricolor'
19	Boston Fern	Nephrolepis exaltata cv.
20	Cactus	Opuntia cv.
21	Caladium	Caladium x hortulanum cv.
22	Calla Lily	Zantedeschia hybrid cv.
23	Campanula	Campanula hybrid cv.
24	Carnation	Dianthus caryophyllus cv.
25	China Aster	Callistephus chinensis cv.
26	Christmas Cactus	Schlumbergera bridgesii
27	Cineraria	Senecio x hybridus cv.
28	Clematis	Clematis hybrid cv.
29	Cockscomb	Celosia argentea cv.
30	Coleus	Solenostemon scutellarioides
31	Corn Plant	Dracena fragrans
32	Creeping fig	Ficus pumila
33	Croton	Codiaeum variegatum pictum
34	Crown of Thorns	Euphorbia splendens
35	Cymbidium Orchid	Cymbidium cv.
36	Daffodil or Narcissus	Narcissus hybrid cv.
37	Dahlia	Dahlia hybrid cv.
38	Daylily	Hemerocallis cv.
39	Dendrobium Orchid	Dendrobium cv.
40	Dusty Miller	Senecio cineraria

41	Dutch Iris	Iris x xiphium cv.
42	Emerald Ripple Peperomia	Peperomia caperata
43	English Ivy	Hedera helix cv.
44	Flamingo Plant	Anthurium x andraeanum cv.
45	Florist's Chrysanthemum	Chrysanthemum x morifolium
46	Florist's Cyclamen	Cyclamen x persicum cv.
47	Freesia	Freesia x hybrida
48	Garden Canna	Canna x generalis cv.
49	Garden Gladiolus	Gladiolus x hortulanus cv.
50	Gardenia	Gardenia jasminoides
51	Gerbera Daisy	Gerbera jamesonii
52	Globe Amaranths	Gomphrena hybrid cv.
53	Golden Pothos	Epipremnum aureum cv.
54	Heartleaf Philodendron	Philodendron scandens oxycardium
55	Hens and Chicks	Sempervivum hybrid cv.
56	Hosta	Hosta cv.
57	Hyacinth	Hyacinthus orientalis cv.
58	Hybrid Tea Rose	Rosa hybrid cv
59	Impatiens	Impatiens hybrid cv.
60	Ivy Geranium	Pelargonium peltatum cv.
61	Jade Plant	Crassula argentea
62	Kalanchoe	Kalanchoe x blossfeldiana cv.
63	Ladyslipper Orchid	Paphiopedilum hybrid cv.
64	Lantana	Lantana camara
65	Larkspur	Delphinium consolida cv.
66	Leatherleaf Fern	Rumohra adiantiformis
67	Lemongrass (herb)	Cymbopogon cv.
68	Liatris	Liatris spicata
69	Marguerite Daisy	Argyranthemum frutescens
70	Marigold	Tagetes species cv.
71	Million Bells	Calibrachoa hybrid cv.
72	Monte Cassino Aster	Aster pringlei
73	Moth Orchid	Phalaenopsis cv.
74	Nephtytis	Syngonium podophyllum
75	Nerve Plant	Fittonia verschaffeltii argyroneura
76	Norfolk Island Pine	Araucaria heterophylla
77	Octopus Plant	Schefflera arboricola
78	Ornamental Pepper Plant	Capsicum annum
79	Ornamental Sweet Potato	Impomoea batatas cv.
80	Pansy	Viola x wittrockiana cv.

81	Parlor Palm	<i>Chamaedorea elegans</i>
82	Peace Lily	<i>Spathiphyllum</i>
83	Perennial Vinca (Periwinkle)	<i>Vinca minor</i>
84	Pentas	<i>Pentas hybrid cv.</i>
85	Peony	<i>Paeonia cv.</i>
86	Peruvian Lily	<i>Alstroemeria hybrid cv.</i>
87	Petunia	<i>Petunia x hybrida cv.</i>
88	Pin Cushion Protea	<i>Leucospermum hybrid cv.</i>
89	Poinsettia	<i>Euphorbia pulcherrima cv.</i>
90	Polka Dot Plant (Pink Splash)	<i>Hypoestes phyllostachya</i>
91	Portulaca	<i>Portulaca oleracea cv.</i>
92	Prayer Plant	<i>Maranta leuconeura</i>
93	Primrose	<i>Primula malacoides cv.</i>
94	"Purple Passion", Velvet Plant	<i>Gynura aurantiaca 'Sarmentosa'</i>
95	Ranunculus	<i>Ranunculus hybrid cv.</i>
96	Red Edge Dracaena	<i>Dracaena cincta</i>
97	Regal (Martha Washington) Geranium	<i>Pelargonium x domesticum</i>
98	Rubber Plant	<i>Ficus elastica cv</i>
99	Salvia	<i>Salvia splendens cv.</i>
100	Shasta Daisy	<i>Leucanthemum x superbum</i>
101	Shrimp Plant	<i>Justica brandegeana</i>
102	Silver Dollar Eucalyptus	<i>Eucalyptus polyanthemos</i>
103	Silver Vase Bromeliad	<i>Aechmea fasciata cv.</i>
104	Snake Plant	<i>Sansevieria trifasciata cv.</i>
105	Snapdragon	<i>Antirrhinum majus cv.</i>
106	Solidago	<i>Solidago hybrid cv</i>
107	Spider Plant	<i>Chlorophytum comosum cv.</i>
108	Split Leaf Philodendron	<i>Monstera deliciosa</i>
109	Spotted Dumbcane	<i>Dieffenbachia</i>
110	Sprengeri Fern	<i>Asparagus densiflorus</i>
111	Spring Heather	<i>Erica carnea cv.</i>
112	Statice	<i>Limonium sinuatum</i>
113	Stephanotis	<i>Stephanotis floribunda</i>
114	Stock	<i>Matthiola incana cv.</i>
115	Strawberry Begonia	<i>Saxifraga stolonifera</i>
116	Sunflower	<i>Helianthus annuus</i>
117	Swedish Ivy	<i>Plectranthus australis</i>
118	Thanksgiving Cactus, Crab Cactus	<i>Schulmbergera truncata</i>
119	Trumpet (Easter) Lily	<i>Lilium longiflorum</i>



120	Tuberous Begonia	Begonia x tuberhybrida cv.
121	Tulip	Tulipa cv.
122	Variegated Peperomia	Peperomia obtusifolia 'Variegata'
123	Verbena	Verbena hybrid cv.
124	Wandering Jew	Tradescantia zebrine
125	Watermelon Peperomia	Peperomia sandersii
126	Wax Begonia	Begonia x semperflorens –cultorum
127	Wax Plant	Hoya carnosa
128	Waxflower	Chamelaucium uncinatum
129	Zebra Plant	Aphelandra squarrosa cv.
130	Zinnia	Zinnia cv.
131	Zonal Geranium	Pelargonium x hortorum cv.

## IDENTIFYING AND CONTROLLING PLANT DISORDERS PRACTICUM

This practicum is aimed at developing in students the ability to recognize and recommend remedial measures for various types of plant disorders and/or pests. Included among these are environmental, nutritional, pest-related, and disease-related disorders.

Five different stations depicting plant disorders will be included. The participant must identify the item and its classification (disease, insect/pest/mites, nutritional/environmental). The participant then must determine the chemical and/or cultural controls for the disorder. Each participant will identify 5 specimens valued at 10 points each. Identifying the disorder correctly will be worth five points.

Pest and disorder items may be presented as an intact specimen, photograph or preserved specimen (herbarium sheet, insect mount, etc.). Each specimen will be designated by a station number. No specimens or items may be touched or handled in any way. Refer to the Disorder Practicum Scorecard (Form 65) for additional details.

Classification	Identification	Chemical Control	Cultural Control
Disease	Black Leaf Spot	Fungicide	None
	Botrytis-Grey Mold	Fungicide	Reduce Relative Humidity
	Damping Off	None	None
	Down Mildew	Fungicide	Reduce Relative Humidity
	Powdery Mildew	Fungicide	Reduce Relative Humidity
	Root Rot	Fungicide	Correct/Adjust Watering
	Rust	Fungicide	None
	Stem Rot	Fungicide	Correct/Adjust Watering
	Insects / Pests/ Mites	Aphids	Insecticide
Fungus Gnats		Insecticide	Nematodes
Leaf Miner		Insecticide	Predatory Mites
Leafhopper		Insecticide	Ladybird Beetles or Parasitic Wasps
Mealybugs		Insecticide	Parasitic Wasps
Scale		Insecticide	Ladybird Beetles
Snails/Slugs		Molluscicide	None
Spider Mites		Miticide	Predatory Mites
Thrips		Insecticide	Parasitic Wasps
Whiteflies		Insecticide	Ladybird Beetles
Nutritional / Environmental		Ethylene Damage	None
	Insufficient Watering	None	Correct / Adjust Watering
	Iron Deficiency	None	Apply a fertilizer containing iron
	Nitrogen Deficiency	None	Apply a fertilizer containing N
	Phosphorus Deficiency	None	Apply a fertilizer containing P

# FLORICULTURE IDENTIFICATION SCORECARD

Training Reference 3

Name: \_\_\_\_\_ Contestant No: \_\_\_\_\_

School: \_\_\_\_\_ School No: \_\_\_\_\_

## Plant Number

- |           |           |           |
|-----------|-----------|-----------|
| 1. _____  | 21. _____ | 41. _____ |
| 2. _____  | 22. _____ | 42. _____ |
| 3. _____  | 23. _____ | 43. _____ |
| 4. _____  | 24. _____ | 44. _____ |
| 5. _____  | 25. _____ | 45. _____ |
| 6. _____  | 26. _____ | 46. _____ |
| 7. _____  | 27. _____ | 47. _____ |
| 8. _____  | 28. _____ | 48. _____ |
| 9. _____  | 29. _____ | 49. _____ |
| 10. _____ | 30. _____ | 50. _____ |
| 11. _____ | 31. _____ | 51. _____ |
| 12. _____ | 32. _____ | 52. _____ |
| 13. _____ | 33. _____ | 53. _____ |
| 14. _____ | 34. _____ | 54. _____ |
| 15. _____ | 35. _____ | 55. _____ |
| 16. _____ | 36. _____ | 56. _____ |
| 17. _____ | 37. _____ | 57. _____ |
| 18. _____ | 38. _____ | 58. _____ |
| 19. _____ | 39. _____ | 59. _____ |
| 20. _____ | 40. _____ | 60. _____ |

# FLORICULTURE IDENTIFICATION LIST

## Student Copy 1

1	African Violet	Saintpaulia ionantha cv.	66	Leatherleaf Fern	Rumohra adiantiformis
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3	Aglaonema	Aglaonema commutatum	68	Liatriis	Liatriis spicata
4	Aluminum Plant	Pilea cadierei	69	Marguerite Daisy	Argyranthemum frutescens
5	Alyssum	Lobularia maritima	70	Marigold	Tagetes species cv.
6	Amaryllis	Hippeastrum hybrid cv.	71	Million Bells	Calibrachoa hybrid cv.
7	Annual Vinca	Catharanthus roseus	72	Monte Cassino Aster	Aster pringlei
8	Artillery Plant	Pilea microphylla	73	Moth Orchid	Phalaenopsis cv.
9	Asiatic or Oriental Lily	Lilium hybrid cv.	74	Nepthytis	Syngonium podophyllum
10	Asparagus "Fern"	Asparagus setaceus	75	Nerve Plant	Fittonia verschafteltii argyreneura
11	Astilbe	Astilbe hybrid cv.	76	Norfolk Island Pine	Araucaria heterophylla
12	Azalea	Rhododendron hybrids	77	Octopus Plant	Schefflera arboricola
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19	Boston Fern	Nephrolepis exaltata cv.	84	Pentas	Pentas hybrid cv.
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21	Caladium	Caladium x hortulanum cv.	86	Peruvian Lily	Alstroemeria hybrid cv.
22	Calla Lily	Zantedeschia hybrid cv.	87	Petunia	Petunia x hybrida cv.
23	Campanula	Campanula hybrid cv.	88	Pin Cushion Protea	Leucospermum hybrid cv.
24	Carnation	Dianthus caryophyllus cv.	89	Poinsettia	Euphorbia pulcherrima cv.
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64	Lantana	Lantana camara	129	Zebra Plant	Aphelandra squarrosa cv.
65	Larkspur	Delphinium consolida cv.	130	Zinnia	Zinnia cv.
			131	Zonal Geranium	Pelargonium x hortorum cv.

## FLORICULTURE/GREENHOUSE ITEMS

Name: \_\_\_\_\_ Contestant No: \_\_\_\_\_

School: \_\_\_\_\_ School No. \_\_\_\_\_

- |   |  |   |  |
|---|--|---|--|
| <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> <p>6. _____</p> <p>7. _____</p> <p>8. _____</p> <p>9. _____</p> <p>10. _____</p> <p>11. _____</p> <p>12. _____</p> <p>13. _____</p> <p>14. _____</p> <p>15. _____</p> <p>16. _____</p> <p>17. _____</p> <p>18. _____</p> <p>19. _____</p> <p>20. _____</p> <p>21. _____</p> <p>22. _____</p> <p>23. _____</p> <p>24. _____</p> <p>25. _____</p> | <p>00. # 3 Ribbon</p> <p>01. # 9 Ribbon</p> <p>02. #40 Ribbon</p> <p>03. #100 Ribbon</p> <p>04. 18 Gauge floral wire</p> <p>05. 28 Gauge floral wire</p> <p>06. 606 Cell Pack</p> <p>07. 804 Cell Pack</p> <p>08. 806 Cell Pack</p> <p>09. 1204 Cell Pack</p> <p>10. 1206 Cell Pack</p> <p>11. 1801 Cell Pack</p> <p>12. 1803 Cell Pack</p> <p>13. Anvil-&amp;-Blade Pruner</p> <p>14. Backflow preventer</p> <p>15. Bouquet sleeve</p> <p>16. Bulb planter</p> <p>17. Cardette</p> <p>18. Ceramic container</p> <p>19. Chemical resistant gloves</p> <p>20. Chenille stem</p> <p>21. Coconut COIR</p> <p>22. Compressed air sprayer</p> <p>23. Corsage box</p> <p>24. Corsage pins</p> <p>25. Corsage snips</p> <p>26. Drip emitter, irrigation</p> <p>27. Dry foam</p> <p>28. Dust mask</p> <p>29. Duster</p> <p>30. Ellepot propagation cubes</p> <p>31. Enclosure card</p> <p>32. Fern greening pins</p> <p>33. Fertilizer injectors</p> <p>34. Floral adhesive</p> <p>35. Floral foam</p> | <p>36. Floral knife</p> <p>37. Floral preservative</p> <p>38. Floral stem tape</p> <p>39. Fogger</p> <p>40. Gas mask</p> <p>41. Glass vase</p> <p>42. Glue gun</p> <p>43. Glue sticks</p> <p>44. Goggles</p> <p>45. Granular fertilizer</p> <p>46. Greenhouse thermostat</p> <p>47. Hanging basket</p> <p>48. Hearing protection</p> <p>49. Hook-&amp;-Blade pruners (bypass pruners)</p> <p>50. Hose punch</p> <p>51. Hose repair coupling</p> <p>52. Hose-end repair fitting</p> <p>53. Hose-end sprayer</p> <p>54. Hose-end washer</p> <p>55. Impulse sprinkler</p> <p>56. Irrigation tape</p> <p>57. Irrigation timer</p> <p>58. Mist Nozzle (mist bed)</p> <p>59. Oscillating sprinkler</p> <p>60. Peat moss</p> <p>61. Peat pots</p> <p>62. Pest strips</p> <p>63. pH testing meter</p> <p>64. Polyethylene film</p> <p>65. Polyethylene pipe</p> <p>66. Pot covers</p> | <p>67. Propagation Mat</p> <p>68. Propagation trays</p> <p>69. PVC pipe</p> <p>70. PVC pipe cutter</p> <p>71. Resin-coated fertilizer</p> <p>72. Respirator</p> <p>73. Ribbons shears</p> <p>74. Rice hulls</p> <p>75. Rockwool propagation cubes</p> <p>76. Rose and stem flower stripper</p> <p>77. Shade fabric</p> <p>78. Sharpening stone</p> <p>79. Sheet moss</p> <p>80. Siphon injector</p> <p>81. Soil moisture meter</p> <p>82. Solenoid valve</p> <p>83. Spanish moss</p> <p>84. Spaghetti tubing (1/4" diameter or less)</p> <p>85. Sphagnum moss</p> <p>86. Spray suit</p> <p>87. Square point (flat) shovel</p> <p>88. Styrofoam</p> <p>89. Surestik cling</p> <p>90. Tulle</p> <p>91. Vermiculite</p> <p>92. Water breaker</p> <p>93. Water picks</p> <p>94. Water soluble fertilizer</p> <p>95. Water tubes</p> <p>96. Waterproof container tape</p> <p>97. Wire cutter</p> <p>98. Wooden pick</p> <p>99. Wrist corsage holder</p> |
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## DISORDER PRACTICUM SCORECARD

Name: \_\_\_\_\_ Contestant No: \_\_\_\_\_

School: \_\_\_\_\_ School No. \_\_\_\_\_

		Member Answer	Possible Points	Member Score
1.	Classification #:		2	
	Identification #:		4	
	Chemical Control #:		2	
	Cultural/ Biological Control #:		2	
2.	Classification #:		2	
	Identification #:		4	
	Chemical Control #:		2	
	Cultural/ Biological Control #:		2	
3.	Classification #:		2	
	Identification #:		4	
	Chemical Control #:		2	
	Cultural/ Biological Control #:		2	
4.	Classification #:		2	
	Identification #:		4	
	Chemical Control #:		2	
	Cultural/ Biological Control #:		2	
5.	Classification #:		2	
	Identification #:		4	
	Chemical Control #:		2	
	Cultural/ Biological Control #:		2	

**CLASSIFICATION:**

- 01. Diseases
- 02. Insects / Pest / Mites
- 03. Nutritional / Environmental

**IDENTIFICATION:**

- 20. Aphids
- 21. Black Leaf Spot
- 22. Botrytis – Grey Mold
- 23. Damping-off
- 24. Downy Mildew
- 25. Ethylene Damage
- 26. Fungus Gnats
- 27. Insufficient Watering
- 28. Iron Deficiency
- 29. Leaf Miner
- 30. Leafhopper
- 31. Mealybugs
- 32. Nitrogen Deficiency
- 33. Phosphorus Deficiency
- 34. Powdery Mildew
- 35. Root Rot
- 36. Rust
- 37. Scale
- 38. Snails/Slugs
- 39. Spider Mites
- 40. Stem Rot
- 41. Thrips
- 42. whiteflies

**CHEMICAL CONTROL:**

- 1. Fungicide
- 2. Insecticide
- 3. Miticide
- 4. Mulluscicide
- 5. No Treatment Listed

**CULTURAL CONTROL:**

- 1. Apply a fertilizer containing iron
- 2. Apply a fertilizer high in nitrogen
- 3. Apply a fertilizer high in phosphorous
- 4. Correct / Adjust Temperature
- 5. Correct / Adjust Watering
- 6. Ladybird Beetles
- 7. Nematodes
- 8. Parasitic Wasps
- 9. Predatory Mites
- 10. Reduce Relative Humidity
- 11. No Treatment Listed