

NURSERY/LANDSCAPE

Revised 6/2018

Purpose and Standards

The Nursery/Landscape contest prepares students for careers in the nursery and landscaping. Topics include plant identification, plant physiology, soil science, plant reproduction, and nursery production, as well as landscaping design, installation, and maintenance.

Foundation Standards: Mathematics Algebra, 15.0 and Geometry 8.0, 11.0. History & Social Science Principles of Economics: 12.2.2, 12.2.5, 12.2.6, 12.2.7. Communication: 1.1, 2.2, 1.8.

Ornamental Horticulture Pathway Standards: F1.1-1.5, F2.1-2.6, F3.1-3.3, F4.1-4.4, F5.1-5.5, F6.1-6.4, F7.1-7.3, F8.1-8.4, F9.1-9.4, F10.1-10.5.

Contestants

A team may consist of three or four members. The top three total scores will be used in determining final and sub-contest team placings. All team members are eligible for individual awards.

Classes

Class	Individual Points	Team Points
Trees class placed	50	150
Shrub class placed	50	150
Flat class placed	50	150
Reasons 1	50	150
Reasons 2	50	150
Transplanting	50	150
Identification	400	1200
Written Test	150	450
TOTAL	850	2550

Tie Breaker

1. The team or individual scoring the highest total reason score(s) will be the winner.
2. If a tie still exists, the written test (or other class) will be used to determine the high individual or team.
3. If a tie still exists, the total score of the individual or team will be used to determine the high individual or team.

Sub-contest Awards

Sub-contest awards will be given for high teams and individuals in the following areas: Judging (Trees, Shrubs, Flats combined), Reasons, Transplants, ID, and Written Test. (Reasons are **not included** in judging sub-contest score.)

Rules

- I. Judging
 - A. All Plants used for judging shall come from the Curricular Code list.
 - B. Three classes will be judged. They will be labeled 1, 2, and 3.
 - C. The three classes shall consist of:
 1. One class of trees (The trees will be growing in 5 gallon cans.)
 2. One class of shrubs (The shrubs will be growing in 5 gallon cans.)
 3. One class of standard flats of marketable bedding plants
 - D. Reasons will be given on two of the three classes judged.
 - E. Contestants will be awarded 0-50 points for each placing. If reasons will be given, 0-50 points will be given based on the following criteria:

Subject matter	60%
Logic and force	30%
Bearing and address	10%
 - F. Individual scoring will then include:

Three classes placed	50 =	150
Two classes reasons	50 =	100
Total		250
 - G. Ten minutes will be allowed for judging each class and two minutes per contestant for presenting oral reasons in each class.
 - H. Contestants are not allowed to handle any contest material.

II. Score cards

Tree Judging Score Card		Value
A.	Size	20%
	1) Height of tree	
	2) Spread of branches	
	3) Circumference of trunk	
B.	Framework	20%
	1) Distribution of branches	
	2) General symmetry	
C.	Pruning	20%
	1) Systems should be in accord with length of growth - severe, moderate or light	
	2) Flowering wood evenly distributed	
	3) Interfering branches and dead wood removed	
	4) Pruning cuts properly made and treated	
D.	Vigor	20%
	1) Good color and large leaves	
	2) Sufficient new wood	
	3) New wood in good condition--not spindling	
E.	Health	20%
	1) Fungus or bacterial disease	
	2) Insect pests	
	3) Physiological diseases	
	4) Mechanical injury	
	5) Sunburn	
	6) Frost injury	
	TOTAL	100%

Shrubs Judging Score card		Value
A.	Size	40%
	1) Height of plant	
	2) Spread of branches	
	3) Form	
B.	Framework	20%
	1) Distribution well placed	
	2) General symmetry -- well shaped	
C.	Pruning	10%
	1) Systems should be in accord with length of growth - severe, moderate or light	
	2) Flowering wood evenly distributed	
	3) Interfering branches and dead wood removed	
	4) Pruning cuts properly made and treated	
E.	Health and Vigor	30%
	1) Good color and large leaves	
	2) Sufficient new wood past season	
	3) New wood in good condition--not spindling	
	4) Fungus or bacterial disease	
	5) Insect pests	
	6) Physiological diseases	
	7) Mechanical injury	
	8) Sunburn	
	9) Frost injury	
	TOTAL	100%

Flat Judging Score card		Value
A.	Uniformity	40%
	1) Size of plant	
	2) Number of plants	
	3) Uniformity of spotting	
B.	Health and Vigor	40%
	1) Sufficient growth	
	2) Good color and large leaves	
	3) New growth in good condition--not spindling	
	4) Fungus or bacterial disease	
	5) Insect pests	
	6) Physiological diseases	
	7) Mechanical injury	
	8) Sun damage	
	9) Soil condition	
C.	Salability	20%
	TOTAL	100%

III. Transplanting

- A. Contestants will transplant one liner to a 1 gallon container, which will be worth 50 points: 25 points for the mechanics and 25 points for the explanation of the process to a judge. A ten (10) point deduction will be made if the explanation exceeds three (3) minutes.

Transplant Score Card	Value
Mechanics	
1. Checking soil for moisture	5
2. Removing liner from pot	5
3. Centering plant in can	5
4. Proper level of plant/soil level	5
5. Watering the transplanted liner	5
Explanation of Process	
Explanation of the quality of the liner and the steps outlined in the mechanics of the process.	25
TOTAL	50

IV. Identification

- A. There will be identification of:
 - 1. Bedding Plants (6)

2. Perennials (7)
 3. Ferns (2)
 4. House Plants (10)
 5. Shrubs (30)
 6. Trees (20)
 7. Vines (5)
 8. Ground Covers (5)
 9. Buds and Grafts, Tools and Materials (15)
- B. Plant, tool, buds, graft and identification:
1. For the judging contest, a list of names will be given to each contestant as contained in the Curricular Code. One hundred (100) identification items worth 4 points each will be on an answer sheet (attached) basis with a minimum of 45 minutes. The plant list will align with the California Certified Nursery Professional Plant List
 2. Plant identification items will be typical of container stock found in a retail nursery. Six (6) bedding plants, seven (7) perennials, two (2) ferns, ten (10) house plants, thirty (30) shrubs, twenty (20) trees, five (5) vines, and five (5) ground covers will be selected from the Curricular Code lists.
 3. Fifteen (15) bud and grafts, tools and materials will be selected from their respective lists.
- C. Identification exam shall be on written answer sheet (see "FFA Ornamental Horticulture Contest Identification Answer sheet" attached.)
- D. Contestants are not allowed to handle any contest material.
- V. General Knowledge Objective Test
- A. A 50 question general knowledge objective test shall consist of:
 1. Fifteen true/false questions
 2. Fifteen multiple choice questions
 3. Twenty matching questions
 - B. All questions will be drawn from the most current text, Retail Nurseryman's Manual, prepared by California Association of Nurseries and Garden Centers, as well as Landscaping: Principles & Practices (Ingels) - Chapter 8: Principles of Design, Chapter 14: Pricing the Proposed Design, Chapter 16: Landscape Calculations. The test will also include questions referring to landscape and landscape design, as well as cost estimating, reading, and interpreting landscape design plans, and assessing an area for installation.
 - C. Contestants will be given forty-five minutes to complete the test.
 - D. Contestants will not be able to ask any contest personnel questions which seek interpretation of or answers to test questions during the administration of the objective test.
 - E. Each question will be worth three points with 150 points total possible.

VI. Plant Identification List

	Botanical Name	Common Name
Trees		
TR 1	<i>Acer palmatum</i>	Japanese Maple
TR 2	<i>Arbutus unedo</i>	Strawberry Tree
TR 3	<i>Archontophoenix cunninghamiana</i>	King Palm
TR 4	<i>Betula pendula</i>	European White Birch
TR 5	<i>Cedrus deodara</i>	Deodar Cedar

	Botanical Name	Common Name
TR 6	<i>Cercis occidentalis</i>	Western Redbud
TR 7	<i>Chamaerops humilis</i>	Mediterranean Fan Palm
TR 8	<i>Cinnamomum camphora</i>	Camphor Tree
TR 9	<i>Citrus 'Improved Meyer'</i>	Improved Meyer Lemon
TR 10	<i>Cupaniopsis anacardioides</i>	Carrot Wood
TR 11	<i>Cupressus sempervirens</i>	Italian Cypress
TR 12	<i>Elaeocarpus decipiens</i>	Japanese Blueberry Tree
TR 13	<i>Eucalyptus polyanthemos</i>	Silver Dollar Gum
TR 14	<i>Ficus microcarpa</i>	Indian Laurel Fig, (Chinese Banyan)
TR 15	<i>Geijera parviflora</i>	Australian Willow, (Wilga)
TR 16	<i>Ginkgo biloba</i>	Maidenhair Tree
TR 17	<i>Jacaranda mimosifolia</i>	Jacaranda
TR 18	<i>Lagerstroemia indica</i>	Crape Myrtle
TR 19	<i>Liquidambar styraciflua</i>	American Sweet Gum
TR 20	<i>Magnolia grandiflora</i>	Southern Magnolia, (Bull Bay)
TR 21	<i>Magnolia x soulangeana</i>	Saucer Magnolia
TR 22	<i>Maytenus boaria</i>	Mayten
TR 23	<i>Morus alba 'Fruitless'</i>	Fruitless Mulberry
TR 24	<i>Olea europaea 'Wilsonii'</i>	Olive
TR 25	<i>Picea pungens glauca</i>	Colorado Blue Spruce
TR 26	<i>Pinus canariensis</i>	Canary Island Pine
TR 27	<i>Pinus thunbergii</i>	Japanese Black Pine
TR 28	<i>Pistacia chinensis</i>	Chinese Pistache
TR 29	<i>Platanus x acerifolia (x hispanica)</i>	London Plane Tree
TR 30	<i>Prunus cerasifera</i>	Cherry Plum, (Myrobalan)
TR 31	<i>Pyrus calleryana</i>	Flowering Pear
TR 32	<i>Quercus agrifolia</i>	Coast Live Oak
TR 33	<i>Quercus lobata</i>	Valley Oak
TR 34	<i>Rhus lancea</i>	African Sumac
TR 35	<i>Sequoia sempervirens</i>	Redwood, (Coast Redwood)
TR 36	<i>Syagrus (Arecastrum) romanzoffi anum</i>	Queen Palm
TR 37	<i>Trachycarpus fortunei</i>	Windmill Palm
Shrubs		
SH 38	<i>Abelia 'Edward Goucher'</i>	Pink Abelia 'Edward Goucher'
SH 39	<i>Abutilon hybrids</i>	Flowering Maple, (Chinese Lantern)
SH 40	<i>Alyogyne (Hibiscus) huegelii</i>	Blue Hibiscus
SH 41	<i>Anigozanthus hybrids</i>	Kangaroo Paw
SH 42	<i>Anisodonteia c hypomandarum</i>	Cape Mallow
SH 43	<i>Aucuba japonica 'Variegata'</i>	Gold Dust Plant, (Japanese Aucuba)
SH 44	<i>Bambusa multiplex (glaucescens) 'Golden Goddess'</i>	Golden Goddess Bamboo
SH 45	<i>Berberis thunbergii atripurpurea (B.t.'Atropurpurea')</i>	Japanese Barberry
SH 46	<i>Brunfelsia pauciflora (calycina) 'Floribunda'</i>	Yesterday-Today-And-

	Botanical Name	Common Name
		Tomorrow
SH 47	<i>Buddleja davidii</i>	Butterfly Bush, (Summer Lilac)
SH 48	<i>Buxus microphylla japonica</i>	Japanese Boxwood
SH 49	<i>Calliandra haematocephala</i>	Pink Powder Puff
SH 50	<i>Callistemon viminalis</i> 'Little John'	Dwarf Bottlebrush
SH 51	<i>Camellia japonica</i>	Japanese Camellia
SH 52	<i>Camellia sasanqua</i>	Sasanqua Camellia
SH 53	<i>Carissa macrocarpa</i> 'Tuttle' ('Nana Compacta Tuttlei')	Natal Plum
SH 54	<i>Ceanothus griseus horizontalis</i>	Carmel Creeper
SH 55	<i>Cestrum nocturnum</i>	Night Jessamine
SH 56	<i>Cistus x purpureus</i>	Orchid Rockrose
SH 57	<i>Coleonema pulchrum</i> (pulchrum)	Sunset Gold Coleonema
SH 58	<i>Cotoneaster horizontalis</i>	Rock Cotoneaster
SH 59	<i>Cuphea hyssopifolia</i>	False (Hawaiian, Mexican) Heather
SH 60	<i>Cycas revoluta</i>	Sago Palm
SH 61	<i>Daphne odora</i> 'Aureo-marginata' ('Marginata')	Winter Daphne
SH 62	<i>Dodonaea viscosa</i> 'Purpurea'	Purple Hop Bush, (Purple Hopseed Bush)
SH 63	<i>Echium candicans</i> (fastuosum)	Pride Of Madeira
SH 64	<i>Escallonia x exoniensis</i> ('Frandes')	Escallonia
SH 65	<i>Euonymus japonicus</i> 'Aureovariegatus'	Golden Spot Euonymus
SH 66	<i>Fatsia japonica</i>	Japanese Aralia
SH 67	<i>Feijoa (Acca) sellowiana</i>	Pineapple Guava
SH 68	<i>Forsythia x intermedia</i>	Forsythia
SH 69	<i>Gardenia jasminoides</i> (augusta) 'Veitchii'	Everblooming Gardenia
SH 70	<i>Grevillea</i> 'Noellii'	Grevillea
SH 71	<i>Hibiscus rosa-sinensis</i>	Chinese Hibiscus, (Tropical Hibiscus)
SH 72	<i>Hibiscus syriacus</i>	Rose Of Sharon, (Shrub Althaea)
SH 73	<i>Hydrangea macrophylla</i>	Bigleaf Hydrangea, (Garden Hydrangea)
SH 74	<i>Juniperus chinensis</i> 'Kaizuka' ('Torulosa')	Hollywood Juniper
SH 75	<i>Juniperus rigida conferta</i> 'Blue Pacific'	Shore Juniper
SH 76	<i>Juniperus procumbens</i> 'Nana'	Dwarf Japanese Garden Juniper
SH 77	<i>Laurus nobilis</i>	Sweet Bay, (Grecian Laurel)
SH 78	<i>Lavatera matirima</i>	Tree Mallow
SH 79	<i>Leonotis leonurus</i>	Lion's Tail
SH 80	<i>Leptospermum scoparium</i>	New Zealand Tea Tree
SH 81	<i>Ligustrum japonicum</i> 'Texanum'	Wax-Leaf Privet, (Japanese Privet)
SH 82	<i>Loropetalum chinense</i>	Chinese Fringe Flower
SH 83	<i>Lycianthes (Solanum) rantonnetii</i>	Blue Potato Bush
SH 84	<i>Myrsine africana</i>	African Boxwood
SH 85	<i>Myrtus communis</i> 'Compacta'	Dwarf Myrtle

	Botanical Name	Common Name
SH 86	<i>Nandina domestica</i> 'Gulf Stream'	Gulf Stream Heavenly Bamboo
SH 87	<i>Nerium oleander</i>	Oleander
SH 88	<i>Philodendron bipinnatifidum</i> (selloum)	Philodendron
SH 89	<i>Phoenix roebelenii</i>	Pygmy Date Palm
SH 90	<i>Phormium tenax</i>	New Zealand Flax
SH 91	<i>Photinia x fraseri</i>	Photinia
SH 92	<i>Pieris (Andromeda) japonica</i>	Lily-Of-The-Valley Shrub
SH 93	<i>Pinus mugo mugo</i> (mugo mugo)	Mugo Pine
SH 94	<i>Pittosporum tenuifolium</i> (nigricans)	Kohuhu
SH 95	<i>Pittosporum tobira</i> 'Wheeler's	Wheeler's Dwarf Mock Orange
SH 96	<i>Platycladus (thuja) orientalis</i> 'Aurea Nana'	Dwarf Golden Arborvitae
SH 97	<i>Plumbago auriculata</i> (capensis)	Cape Plumbago
SH 98	<i>Podocarpus (gracilior elongate)</i> 'Icee Blue'	Icee Blue Fern Pine
SH 99	<i>Polygala x dalmaisiana</i>	Sweet Pea Shrub
SH 100	<i>Pyracantha crenatoserrata</i> (fortuneana) 'Graber'	Graber Pyracantha
SH 101	<i>Raphiolepis indica</i>	Indian Hawthorn
SH 102	<i>Rhododendron (Azalea) indica</i>	(Southern) Indica Azalea
SH 103	<i>Rhododendron species</i>	Rhododendron
SH 104	<i>Schefflera arboricola</i>	Hawaiian Elf Schefflera
SH 105	<i>Strelitzia reginae</i>	Bird Of Paradise
SH 106	<i>Syringa vulgaris</i>	Common Lilac
SH 107	<i>Syzygium paniculatum</i> (<i>Eugenia myrtifolia</i>)	Brush Cherry, (Australian Brush Cherry)
SH 108	<i>Tecoma (Tecomaria) capensis</i>	Cape Honeysuckle
SH 109	<i>Teucrium fruticans</i>	Bush Germander
SH 110	<i>Tibouchina urvilleana</i> (semidecandra)	Princess Flower
SH 111	<i>Viburnum opulus</i> 'Roseum' ('Sterile')	Common Snowball
SH 112	<i>Viburnum tinus</i> 'Spring Bouquet'	Spring Bouquet Viburnum
SH 113	<i>Westringia fruticosa</i> rosmariniformis	Coast Rosemary
SH 114	<i>Xylosma congestum</i>	Shiny Xylosma
Vines		
VI 115	<i>Bougainvillea hybrids</i>	Bougainvillea
VI 116	<i>Clematis montana</i>	Clematis
VI 117	<i>Clytostoma callistegioides</i>	Violet Trumpet Vine
VI 118	<i>Ficus pumila</i> (repens)	Creeping Fig
VI 119	<i>Gelsemium sempervirens</i>	Carolina Jessamine
VI 120	<i>Hardenbergia violacea</i>	Lilac Vine
VI 121	<i>Jasminum polyanthum</i>	Pink Jasmine
VI 122	<i>Mandevilla x</i> 'Alice du Pont'	Alice Du Pont Mandevilla
VI 123	<i>Pandorea jasminoides</i> 'Rosea'	Pink Bower Vine
VI 124	<i>Parthenocissus tricuspidata</i>	Boston Ivy
VI 125	<i>Passiflora spp.</i>	Passion Vine
VI 126	<i>Solanum laxum</i> (jasminoides)	Potato Vine
VI 127	<i>Stephanotis floribunda</i>	Madagascar Jasmine
VI 128	<i>Thunbergia alata</i>	Black-Eyed Susan Vine

	Botanical Name	Common Name
VI 129	<i>Trachelospermum jasminoides</i>	Star Jasmine
VI 130	<i>Wisteria sinensis</i>	Chinese Wisteria
Ferns		
FE 131	<i>Athyrium niponicum pictum</i>	Japanese Painted Fern
FE 132	<i>Asplenium bulbiferum</i>	Mother Fern
FE 133	<i>Cyathea cooperi</i>	Australian Tree Fern
FE 134	<i>Dicksonia antarctica</i>	Tasmanian Tree Fern
FE 135	<i>Dryopteris erythrosora</i>	Autumn Fern
FE 136	<i>Polystichum munitum</i>	Western Sword Fern
FE 137	<i>Rumohra adiantiformis</i>	Leatherleaf Fern
FE 138	<i>Woodwardia fimbriata</i>	Giant Chain Fern
Perennials		
PE 139	<i>Achillea millefolium</i>	Common Yarrow
PE 140	<i>Acorus gramineus hybrids</i>	Japanese Sweet Flag
PE 141	<i>Agapanthus hybrids</i>	Lily of the Nile
PE 142	<i>Agrynanthemum (Chrysanthemum) frutscens</i>	Marguerite
PE 143	<i>Aloe vera</i>	Medicinal Aloe
PE 144	<i>Alstroemeria hybrids</i>	Peruvian Lily (Alstroemeria)
PE 145	<i>Aquilegia hybrids</i>	Columbine
PE 146	<i>Bergenia cordifolia</i>	Heartleaf Bergenia
PE 147	<i>Canna hybrids</i>	Canna
PE 148	<i>Carex comans</i>	New Zealand Hair Sedge
PE 149	<i>Centaurea cineraria</i>	Dusty Miller
PE 150	<i>Clivia miniata</i>	Clivia
PE 151	<i>Coreopsis grandiflora</i>	Coreopsis
PE 152	<i>Delphinium elatum</i>	Candle Delphinium
PE 153	<i>Digitalis purpurea</i>	Common Foxglove
PE 154	<i>Ensete ventricosum (Musaensete)</i>	Abyssinian Banana
PE 155	<i>Erigeron karvinskianus</i>	Mexican Daisy, (Santa Barbara Daisy)
PE 156	<i>Gaillardia x grandifl ora hybrids</i>	Gaillardia
PE 157	<i>Gaura lindheimeri 'Siskiyou Pink'</i>	Pink Gaura
PE 158	<i>Geranium sanguineum</i>	Bloody Cranesbill
PE 159	<i>Helleborus orientalis</i>	Lenten Rose
PE 160	<i>Hemerocallis hybrids</i>	Daylily
PE 161	<i>Heuchera sanguinea</i>	Coral Bells, (Alum Root)
PE 162	<i>Hosta hybrids</i>	Plantain Lily
PE 163	<i>Iberis sempervirens</i>	Evergreen Candytuft
PE 164	<i>Juncus patens</i>	California Gray Rush
PE 165	<i>Lamium maculatum</i>	Dead Nettle, (Spotted Nettle)
PE 166	<i>Lavandula angustifolia</i>	English Lavender
PE 167	<i>Leucanthemum x superbum (Crysanthemum maximum)</i>	Shasta Daisy
PE 168	<i>Limonium perezii</i>	Statice, (Sea Lavender)
PE 169	<i>Miscanthus sinensis hybrids</i>	Eulalia (Japanese Silver Grass)
PE 170	<i>Nemesia caerulea (fruticans) hybrids</i>	Nemesia

	Botanical Name	Common Name
PE 171	<i>Ophiopogon jaburan (Liriope gigantea)</i>	Giant Lily Turf
PE 172	<i>Pelargonium x hortorum</i>	Common Geranium, (Garden Geranium)
PE 173	<i>Penstemon x gloxinoides</i>	Border Penstemon, (Garden Penstemon)
PE 174	<i>Salvia greggii</i>	Autumn Sage
PE 175	<i>Salvia leucantha</i>	Mexican Bush Sage
PE 176	<i>Scabiosa columbaria 'Butterfly Blue'</i>	Pincushion Flower
PE 177	<i>Scaevola aemula</i>	Fan Flower
PE 178	<i>Sutera cordata</i>	Bacopa
PE 179	<i>Tulbaghia violacea</i>	Society Garlic
PE 180	<i>Zantedeschia aethiopica</i>	Common Calla
	Bedding Plants	
BP 181	<i>Ageratum houstonianum</i>	Floss Flower
BP 182	<i>Antirrhinum majus</i>	Snapdragon
BP 183	<i>Begonia semperflorens</i>	Bedding Begonia, (Fibrous Begonia)
BP 184	<i>Bellis perennis</i>	English Daisy
BP 185	<i>Calendula officinalis</i>	Calendula, (Pot Marigold)
BP 186	<i>Calibrachoa hybrids</i>	Million Bells
BP 187	<i>Catharanthus roseus (Vinca rosea)</i>	Madagascar Periwinkle, (Vinca)
BP 188	<i>Celosia plumose</i>	Cockscomb
BP 189	<i>Cosmos bipinnatus</i>	Cosmos
BP 190	<i>Cyclamen persicum</i>	Florists' Cyclamen
BP 191	<i>Dahlia hybrids</i>	Bedding Dahlia
BP 192	<i>Eustoma grandifl orum (Lisianthus russellianus)</i>	Lisianthus
BP 193	<i>Impatiens walleriana</i>	Impatiens
BP 194	<i>Lobelia erinus</i>	Lobelia
BP 195	<i>Lobularia maritima</i>	Sweet Alyssum
BP 196	<i>Matthiola incana</i>	Stock
BP 197	<i>Papaver nudicaule</i>	Iceland Poppy
BP 198	<i>Pericallis x hybrid (Sececio x hybridus)</i>	Cineraria
BP 199	<i>Petunia x hybrida</i>	Petunia
BP 200	<i>Phlox drummondii</i>	Phlox
BP 201	<i>Portulaca grandiflora</i>	Rose Moss
BP 202	<i>Primula x polyantha</i>	English Primrose
BP 203	<i>Salvia farinacea</i>	Mealycup Sage
BP 204	<i>Solenostemon scutellarioides (Coleus x hybridus)</i>	Coleus
BP 205	<i>Tagetes hybrids</i>	Marigold
BP 206	<i>Viola x wittrockiana</i>	Pansy
BP 207	<i>Zinnia elegans</i>	Zinnia
	Ground Covers	
GC 208	<i>Ajuga reptans</i>	Carpet Bugle
GC 209	<i>Aptenia cordifolia</i>	Red Apple
GC 210	<i>Campanula poscharskyana</i>	Serbian Bellflower

	Botanical Name	Common Name
GC 211	<i>Drosanthemum floribundum</i>	Rosea Ice Plant
GC 212	<i>Festuca glauca (cinerea)</i>	Common Blue Fescue
GC 213	<i>Hedera helix</i>	English Ivy
GC 214	<i>Hypericum calycinum</i>	Aaron's Beard, (Creeping St. Johnswort)
GC 215	<i>Lantana montevidensis (sellowiana)</i>	Trailing Lantana
GC 216	<i>Mentha requienii</i>	Corsican Mint
GC 217	<i>Ophiopogon japonicus</i>	Mondo Grass
GC 218	<i>Osteospermum fruticosum</i>	Trailing African Daisy, (Freeway Daisy)
GC 219	<i>Pachysandra terminalis</i>	Japanese Spurge
GC 220	<i>Pratia pedunculata (Laurentia fluviatilis)</i>	Blue Star Creeper
GC 221	<i>Rosmarinus officinalis</i>	Trailing Rosemary
GC 222	<i>Sagina subulata</i>	Irish Moss
GC 223	<i>Soleirolia (Helxine) soleirolii</i>	Baby's Tears
GC 224	<i>Thymus serpyllum (praecox arcticus)</i>	Wooly Thyme, (Mother-Of-Thyme)
GC 225	<i>Trachelospermum asiaticum</i>	Asian Jasmine
GC 226	<i>Verbena peruviana (chamaedrifolia)</i>	Verbena
GC 227	<i>Vinca minor</i>	Dwarf Periwinkle
House Plants		
HP 228	<i>Alpinia vittata</i>	Variegated Ginger
HP 229	<i>Anthurium andraeanum</i>	Anthurium, (Spathe Flower)
HP 230	<i>Aspidistra elatior</i>	Cast-iron Plant
HP 231	<i>Beaucarnia (Nolina) recurvate</i>	Bottle Palm, Ponytail Palm
HP 232	<i>Caladium bicolor</i>	Fancy-leafed Caladium
HP 233	<i>Chamaedorea elegans</i>	Areca Palm
HP 234	<i>Chlorophytum comosum</i>	Spider Plant
HP 235	<i>Cissus rhombifolia</i>	Grape Ivy
HP 236	<i>Cymbidium hybrids</i>	Cymbidium Orchid
HP 237	<i>Ficus benjamina</i>	Weeping Fig
HP 238	<i>Ficus lyrata (pandurata)</i>	Fiddleleaf Fig
HP 239	<i>Howea forsteriana</i>	Paradise Palm, (Kentia Palm)
HP 240	<i>Kalanchoe blossfeldiana</i>	Kalanchoe
HP 241	<i>Nephrolepis exaltata 'Bostoniensis'</i>	Boston Fern
HP 242	<i>Phalaenopsis hybrids</i>	Moth Orchid
HP 243	<i>Plectranthus oertendahlii</i>	Sweedish Ivy
HP 244	<i>Plumeria rubra</i>	Plumeria
HP 245	<i>Rhapsis excels</i>	Lady Palm
HP 246	<i>Sansevieria trifasciata</i>	Snake Plant, (Mother-In-Law's Tongue)
HP 247	<i>Schefflera (Dizygotheca) elegantissima</i>	Threadleaf Aralia, (False Aralia)
HP 248	<i>Tillandsia cyanea</i>	Air Plant
HP 249	<i>Tolmiea menziesii</i>	Piggyback Plant
HP 250	<i>Tradescantia zebrina (Zebrina pendula)</i>	Wandering Jew

Buds and Grafts, Tools and Materials Identification. Twenty (20) items will be selected from the following list:

Buds:

251.	Tee
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Grafts:

252.	Cleft
253.	Side
254.	Whip

Tools and Materials:

255.	#1 Container
256.	#15 Container
257.	#5 Container
258.	Action Hoe (ex: Hula Hoe)
259.	Ammonium Sulfate
260.	Atmospheric Breaker
261.	Azalea Pot
262.	Blood Meal
263.	Bone Meal
264.	Broadcast Spreader
265.	Bulb Planter
266.	Carrying Flat
267.	Cell Pack
268.	Class 200 PVC Pipe
269.	Core Aerator
270.	Cut Off Riser
271.	Decorative Bark
272.	Dibble
273.	Drip Emitter
274.	Drop Spreader
275.	Flaring Rose Nozzle
276.	Flex Riser
277.	Forest Humus
278.	Garden Hoe
279.	Garden Rake
280.	Garden Trowel

281.	Gypsum
282.	Hand Cultivator
283.	Hand Pruners (Anvil Type)
284.	Hand Pruners (Bypass Type)
285.	Hedge Shears
286.	Hose End Fogging Nozzle
287.	Hose End Sprayer
288.	Hose Mender
289.	Hose-on Proportioner
290.	Impact Sprinkler
291.	Landscape Rake
292.	Lawn Rake
293.	Liner
294.	Lopper
295.	Manual Valve
296.	Nursery Tape
297.	Peat Moss
298.	Peat Pot
299.	Perlite
300.	Pick
301.	Plant Label
302.	Plant/Tree Stake
303.	Pole Pruner
304.	Polyethylene Drip Tube
305.	Pop Up Spray Head
306.	Pot Label
307.	Propagation Flat
308.	Pruning Saw
309.	Root Feeder
310.	Rotor Sprinkler
311.	Round Point Shovel
312.	Sand
313.	Schedule 40 PVC Pipe
314.	Schedule 80 Riser
315.	Screed
316.	Scuffle Hoe
317.	Slow Release Fertilizer (ex: Osmocote)
318.	Soil Probe
319.	Solenoid Valve
320.	Spading Fork
321.	Sphagnum Moss
322.	Spotting Board

323.	Square Point Shovel
324.	Standard Pot
325.	Sulfur
326.	Superphosphate
327.	Swing Arm Riser
328.	Tamp
329.	Tank Sprayer
330.	Vermiculite
331.	Water Breaker
332.	Mattock Planter
333.	Minimum/Maximum Thermometer
334.	Soil Thermometer
335.	Trenching Shovel

**Nursery Contest
Identification Answer Sheet**

Name: _____ **Chapter:** _____ **Score (x4)** _____

1.	26.	51.	76.
2.	27.	52.	77.
3.	28.	53.	78.
4.	29.	54.	79.
5.	30.	55.	80.
6.	31.	56.	81.
7.	32.	57.	82.
8.	33.	58.	83.
9.	34.	59.	84.
10.	35.	60.	85.
11.	36.	61.	86.
12.	37.	62.	87.
13.	38.	63.	88.
14.	39.	64.	89.
15.	40.	65.	90.
16.	41.	66.	91.
17.	42.	67.	92.
18.	43.	68.	93.
19.	44.	69.	94.
20.	45.	70.	95.
21.	46.	71.	96.
22.	47.	72.	97.
23.	48.	73.	98.
24.	49.	74.	99.
25.	50.	75.	100.