

CATA Curricular Code Change Proposal

Contest:	
Proposed By: (Name, School, Email)	
Issue: (Describe the reason/rationale for the proposed change.)	
Please answer yes or no to ALL the questions below.	
This proposal will require a contest to open out of rotation.	
The change will affect General Rules.	
The change will affect the awards needed.	
The proposed change will affect tabulations/scorecards.	
The proposed change will affect contest forms.	
The proposed change will affect contest hosting site. (e.g. additional facilities, new sections, additional scoring, etc.)	
If you answered yes to any of the above questions, you need to include the following signatures:	
CATA Approved Contest Advisor's Signature	
CDE Host Site Contest Coordinator's Signature	
If you answered yes to any of the above questions, please explain.	
<p>*It is recommended that you, or a representative, attend the pre-conference governing board meeting to answer any questions regarding proposed curricular code changes to contests that are requested to be opened out of rotation.</p>	

Description: (Describe what is changing.)

Proposed CATA Code Change: (Only include the section that the proposed change pertains to – do not include the entire contest. Reference numbered section. If editing text show new text with old text in parenthesis. For large changes set track changes in the Word document and attach the file, with edits, to this document when submitting.)

Proposed CATA Code Change: (continued)

****If unable to use the template, your proposed changes need to be submitted in the same format.***

CATA Curricular Code Change Proposal

Make a copy of this document. In order to input information.

Contest:	
Proposed by: (Name, School, Email)	

Issue: (Describe the reason/rationale for the proposed change.)

Please answer yes or no to ALL the questions below.

This proposal will require a contest to open out of rotation	
The change will affect General Rules	
The change will affect the awards needed.	
Which JudgingCard scorecard will be used for tabulations.	
The proposed change will affect contest forms.	
The proposed change will affect contest hosting site. (e.g. additional facilities, new sections, additional scoring, etc.)	

If you answered yes to any of the above questions, you need to include the following signatures: [Click here](#) for link to CDE Contest Advisor and Coordinator list.

CATA Approved Contest Advisor's Signature	
CDE Host Site Contest Coordinator's Signature agreeing that changes are able to be accommodated by the host site.	

If you answered yes to any of the above questions, please explain.

*It is highly recommended that you, or a representative, attend the pre-conference governing board meeting to answer any questions regarding proposed curricular code changes to contests that are requested to be opened out of rotation.

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Instructions for Submitting Curricular Code Change

- Make sure the form is complete.
- Download and Submit this document as a PDF
 - Click File → Download → Download as a PDF
- If your proposal requires signatures make sure to contact the contest advisor and contest host. **Tip:** Docusign, Doc Hub are great sources for digital signature requests.
 - [Click Here](#) for contest Host and Advisor List
- Email completed Curricular Change Proposal **PDF** to cata@calagteachers.org by June 1st.

Warning: Make sure you add all the topics or concerns you would like to discuss at the Curricular Code CDE meeting. If it's not posted on the CATA Curricular Code Changes website by June 1st, it **cannot** be discussed.

NURSERY/LANDSCAPE

Revised 6/2021

Purpose and Standards

The Nursery/Landscape contest prepares students for careers in the nursery and landscaping **industries**. Topics include plant identification, plant physiology, soil science, plant reproduction, ~~and~~ nursery production, as well as landscap**e**(~~ing~~) 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

Teams consist of four members, with all four individual scores counting as the team score. All team members are eligible for individual awards.

Judging Card

It is recommended that the Nursery/Landscape Contest uses Judging Card Scan Sheet #105482 but general rules state that contest hosts may use the card they see fit.

Classes

Class	Individual Points	Team Points
Trees class placed	50	200
Shrub class placed	50	200
Flat class placed	50	200
Reasons 1	50	200
Reasons 2	50	200
Transplanting	50	200
Identification	400	1600
Written Test	150	600
TOTAL	850	3400

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 **Nursery/Landscape Identification** 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. Reasons

- A. Reasons will be given on two of the three classes judged.
- B. Reasons will be given immediately following the class that was judged.
- C. Contestants will be given two minutes for presenting oral reasons in each class.
- D. 0-50 points will be given based on the following criteria:

Category	Points Possible
Subject Matter	30 Points
Logic and Force	15 Points
Bearing and address	5 Points
Total	50 Points

III. 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%

IV. Transplanting

A. Transplanting

- 1) 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

V. 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 (17)
7. Vines (5)
8. Ground Covers (5)
9. Cacti and Succulents (3)
10. Buds and Grafts, Tools and Materials (15)

B. Plants, tools, buds, grafts and materials identification:

1. ~~(For the judging contest, a list of names)~~ **The contest host will provide each contestant with the Nursery/Landscape Identification List. (Attached)** ~~(will be given to each contestant as contained in the Curricular Code.)~~
2. One hundred (100) identification items worth 4 points each will be ~~on~~ **bubbled in on the Judging Card Scan Sheet.** ~~(an answer sheet (attached) basis)~~
3. **ID will be split into two sections of 1-50 A and 1-50 B but will all be completed in the same rotation within 45 minutes.**
4. **Each contestant will receive** ~~(with)~~ a minimum of 45 minutes.
5. The plant list will align with the California Certified Nursery Professional Plant List **and will be updated on each curricular code cycle.**
6. ~~(Plant ID)~~ 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, seventeen (17) trees, five (5) vines, five (5) ground covers, three

- (3) **cacti and succulents, and** Fifteen (15) bud and grafts, tools and materials will be selected from their respective **groups on the Nursery/Landscape Identification List.**
- C. Identification exam shall be **bubbled in on the Judging Card Scan Sheet with 3 digits bubbled for each ID.** (~~on written answer sheet (see "FFA Ornamental Horticulture Contest Identification Answer sheet" attached.)~~)
 - D. **Non State Finals Contests may choose to use FFA Nursery/Landscape Identification Answer Sheet**
 - E. Contestants are not allowed to handle any contest material.
- VI. 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 **3 (8)**: Principles of Design, Chapter **12 (14)**: Pricing the Proposed Design, Chapter **14 (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.

VII. **Nursery Landscape** (Plant) Identification List

TREES	BOTANICAL NAME	COMMON NAME
TR 001	<i>Acer palmatum</i>	Japanese Maple
TR 002	<i>Arbutus unedo</i>	Strawberry Tree
TR 003	<i>Archontophoenix cunninghamiana</i>	King Palm
TR 004	<i>Cedrus deodara</i>	Deodar Cedar
TR 005	<i>Cercis occidentalis</i>	Western Redbud
TR 006	<i>Chamaerops humilus</i>	Mediterranean Fan Palm
TR 007	<i>Cinnamomum camphora</i>	Camphor Tree
TR 008	<i>Citrus 'Improved Meyer'</i>	Improved Meyer Lemon
TR 009	<i>Cupaniopsis anacardioides</i>	Carrot Wood
TR 010	<i>Cupressus sempervirens</i>	Italian Cypress
TR 011	<i>Elaeocarpus decipiens</i>	Japanese Blueberry Tree
TR 012	<i>Eucalyptus polyanthemos</i>	Silver Dollar Gum
TR 013	<i>Geijera parviflora</i>	Australian Willow, (Wilga)
TR 014	<i>Ginkgo biloba</i>	Maidenhair Tree
TR 015	<i>Jacaranda mimosifolia</i>	Jacaranda
TR 016	<i>Lagerstroemia indica</i>	Crape Myrtle
TR 017	<i>Liquidambar styraciflua</i>	American Sweet Gum
TR 018	<i>Magnolia grandiflora</i>	Southern Magnolia, (Bull Bay)
TR 019	<i>Maytenus boaria</i>	Mayten
TR 020	<i>Morus alba 'Fruitless'</i>	Fruitless Mulberry
TR 021	<i>Olea europaea</i>	Olive
TR 022	<i>Pinus canariensis</i>	Canary Island Pine
TR 023	<i>Pinus thunbergii</i>	Japanese Black Pine
TR 024	<i>Pistachia chinensis</i>	Chinese Pistache
TR 025	<i>Pyrus calleryana</i>	Flowering Pear
TR 026	<i>Quercus agrifolia</i>	Coast Live Oak
TR 027	<i>Quercus lobata</i>	Valley Oak
TR 028	<i>Sequoia sempervirens</i>	Redwood, (Coast Redwood)
TR 029	<i>Syagrus romanzoffiana (romanzoffianum), (Arecastrum romanzoffianum)</i>	Queen Palm
TR 030	<i>Trachycarpus fortunei</i>	Windmill Palm
SHRUBS	BOTANICAL NAME	COMMON NAME
SH 031	<i>Abelia 'Edward Goucher'</i>	Pink Abelia 'Edward Goucher'
SH 032	<i>Abutilon hybrids</i>	Flowering Maple, (Chinese Lantern)
SH 033	<i>Alyogyne (Hibiscus) huegelii</i>	Blue Hibiscus
SH 034	<i>Anigozanthus hybrids</i>	Kangaroo Paw
SH 035	<i>Anisodonte x hypomandarum</i>	Cape Mallow
SH 036	<i>Aucuba japonica 'Variegata'</i>	Gold Dust Plant, (Japanese Aucuba)

SH 0376	<i>Bambusa multiplex (glaucescens)</i> 'Golden Goddess'	Golden Goddess Bamboo
SH 0387	<i>Brunfelsia pauciflora (calycina)</i> 'Floribunda'	Yesterday-Today-And-Tomorrow
SH 0398	<i>Buddleja davidii</i>	Butterfly Bush, (Summer Lilac)
SH 04039	<i>Buxus microphylla japonica</i>	Japanese Boxwood
SH 0410	<i>Calliandra haematocephala</i>	Pink Powder Puff
SH 0421	<i>Callistemon viminalis</i> 'Little John'	Dwarf Bottlebrush
SH 0432	<i>Camellia japonica</i>	Japanese Camellia
SH 0443	<i>Camellia sasanqua</i>	Sasanqua Camellia
SH 0454	<i>Carissa macrocarpa</i> 'Tuttle', ('Nana Compacta Tuttlei')	Natal Plum
SH 0465	<i>Ceanothus griseus horizontalis</i>	Carmel Creeper
SH 0476	<i>Cestrum nocturnum</i>	Night Jessamine
SH 0487	<i>Cistus x purpureus</i>	Orchid Rockrose
SH 0498	<i>Coleonema pulchellum (pulchrum)</i>	Sunset Gold Coleonema
SH 05049	<i>Cotoneaster horizontalis</i>	Rock Cotoneaster
SH 0510	<i>Cuphea hyssopifolia</i>	False (Hawaiian, Mexican) Heather
SH 0521	<i>Cycas revoluta</i>	Sago Palm
SH 0532	<i>Daphne odora</i> 'Aureomarginata' ('Aureo-marginata', 'Marginata')	Winter Daphne
SH 0543	<i>Dodonaea viscosa</i> 'Purpurea'	Purple Hop Bush, (Purple Hopseed Bush)
SH 0554	<i>Echium candicans (fastuosum)</i>	Pride of Madeira
SH 0565	<i>Escallonia x exoniensis</i> ('Frades')	Escallonia
SH 0576	<i>Euonymus japonicus</i> 'Aureovariegatus'	Gold Spot Euonymus
SH 0587	<i>Fatsia japonica</i>	Japanese Aralia
SH 0598	<i>Feijoa (Acca) sellowiana</i>	Pineapple Guava
SH 05960	<i>Forsythia x intermedia</i>	Forsythia
SH 0610	<i>Gardenia jasminoides (augusta)</i> 'Veitchii'	Everblooming Gardenia
SH 0621	<i>Grevillea</i> 'Noellii'	Grevillea
SH 0632	<i>Hibiscus rosa-sinensis</i>	Chinese Hibiscus, (Tropical Hibiscus)
SH 0643	<i>Hibiscus syriacus</i>	Rose of Sharon, (Shrub Althaea)
SH 0654	<i>Hydrangea macrophylla</i>	Bigleaf Hydrangea, (Garden Hydrangea)
SH 0665	<i>Juniperus chinensis</i> 'Kaizuka', ('Torulosa')	Hollywood Juniper
SH 67	<i>Juniperus rigida conferta</i> 'Blue Pacific'	Shore Juniper
SH 68	<i>Juniperus procumbens</i> 'Nana'	Dwarf Japanese Garden Juniper
SH 066	<i>Juniperus procumbens</i> 'Nana'	Dwarf Japanese Garden Juniper
SH 067	<i>Juniperus rigida conferta</i> 'Blue Pacific'	Shore Juniper
SH 0698	<i>Laurus nobilis</i>	Sweet Bay, (Grecian Laurel)

SH 07069	<i>Lavatera maritima</i>	Tree Mallow
SH 0710	<i>Leonotis leonurus</i>	Lion's Tail
SH 0721	<i>Leptospermum scoparium</i>	New Zealand Tea Tree
SH 0732	<i>Ligustrum japonicum</i> 'Texanum'	Wax-Leaf Privet, Japanese Privet
SH 0743	<i>Loropetalum chinense</i>	Chinese Fringe Flower
SH 0754	<i>Lycianthes (Solanum) rantonnetii</i>	Blue Potato Bush
SH 0765	<i>Myrsine africana</i>	African Boxwood
SH 0776	<i>Myrtus communis</i> 'Compacta'	Dwarf Myrtle
SH 0787	<i>Nandina domestica</i> 'Gulf Stream'	Gulf Stream Heavenly Bamboo
SH 0798	<i>Nerium oleander</i>	Oleander
SH 08079	<i>Philodendron bipinnatifidum (selloum)</i>	Philodendron
SH 0810	<i>Phoenix roebelenii</i>	Pygmy Date Palm
SH 0821	<i>Phormium tenax</i>	New Zealand Flax
SH 0832	<i>Photinia x fraseri</i>	Photinia
SH 0843	<i>Pieris (Andromeda) japonica</i>	Lily-Of-The-Valley Shrub
SH 0854	<i>Pinus mugo (mugo mugo)</i>	Mugo Pine
SH 0865	<i>Pittosporum tenuifolium (nigricans)</i>	Kohuhu
SH 0876	<i>Pittosporum tobira</i> 'Wheeler's Dwarf'	Wheeler's Dwarf Mock Orange
SH 0887	<i>Platycladus (Thuja) orientalis</i> 'Aurea Nana'	Dwarf Golden Arborvitae
SH 0898	<i>Plumbago auriculata (capensis)</i>	Cape Plumbago
SH 09089	<i>Podocarpus gracilior</i>	Fern Pine
SH 0910	<i>Polygala x dalmaisiana</i>	Sweet Pea Shrub
SH 0921	<i>Pyracantha crenatoserrata (fortuneana)</i> 'Graber'	Graber Pyracantha
SH 0932	<i>Rhaphiolepis indica</i>	Indian Hawthorn
SH 0943	<i>Rhododendron (Azalea) indica</i>	(Southern) Indica Azalea
SH 0954	<i>Schefflera arboricola</i>	Hawaiian Elf Schefflera
SH 0965	<i>Strelitzia reginae</i>	Bird of Paradise
SH 0976	<i>Syringa vulgaris</i>	Common Lilac
SH 0987	<i>Syzygium paniculatum (Eugenia myrtifolia)</i>	Brush Cherry, (Australian Brush Cherry)
SH 0998	<i>Tecoma (Tecomaria) capensis</i>	Cape Honeysuckle
SH 100099	<i>Teucrium fruticans</i>	Bush Germander
SH 1010	<i>Tibouchina urvilleana (semidecandra)</i>	Princess Flower
SH 1021	<i>Viburnum opulus</i> 'Roseum' ('Sterile')	Common Snowball
SH 1032	<i>Viburnum tinus</i> 'Spring Bouquet'	Spring Bouquet Viburnum
SH 1043	<i>Westringia fruticosa (rosmariniformis)</i>	Coast Rosemary
SH 1054	<i>Xylosma congestum</i>	{Shiny} Xylosma
VINES		
	BOTANICAL NAME	COMMON NAME
VI 1065	<i>Bougainvillea</i> hybrids	Bougainvillea
VI 1076	<i>Clematis</i> hybrids	Clematis
VI 1087	<i>Clytostoma callistegioides</i>	Violet Trumpet Vine

VI 1098	<i>Gelsemium sempervirens</i>	Carolina Jessamine
VI 1109	<i>Hardenbergia violacea</i>	Lilac Vine
VI 1110	<i>Jasminum polyanthum</i>	Pink Jasmine
VI 1121	<i>Mandevilla x 'Alice du Pont'</i>	Alice Du Pont Mandevilla
VI 1132	<i>Pandorea jasminoides 'Rosea'</i>	Pink Bower Vine
VI 1143	<i>Parthenocissus tricuspidata</i>	Boston Ivy
VI 1154	<i>Passiflora spp.</i>	Passion Vine
VI 1165	<i>Solanum laxum (jasminoides)</i>	Potato Vine
VI 1176	<i>Stephanotis floribunda</i>	Madagascar Jasmine
VI 1187	<i>Thunbergia alata</i>	Black-Eyed Susan Vine
VI 1198	<i>Trachelospermum jasminoides</i>	Star Jasmine
VI 12019	<i>Wisteria sinensis</i>	Chinese Wisteria
FERNS		
	BOTANICAL NAME	COMMON NAME
FE 124	<i>Athyrium niponicum pictum</i>	Japanese Painted Fern
FE 122	<i>Asplenium bulbiferum</i>	Mother Fern
FE 120	<i>Asplenium bulbiferum</i>	Mother Fern
FE 121	<i>Athyrium niponicum pictum</i>	Japanese Painted Fern
FE 1232	<i>Cyathea cooperi</i>	Australian Tree Fern
FE 1243	<i>Dicksonia antarctica</i>	Tasmanian Tree Fern
FE 1254	<i>Dryopteris erythrosora</i>	Autumn Fern
FE 1265	<i>Polystichum munitum</i>	Western Sword Fern
FE 1276	<i>Rumohra adiantiformis</i>	Leatherleaf Fern
FE 1287	<i>Woodwardia fimbriata</i>	Giant Chain Fern
PERENNIALS		
	BOTANICAL NAME	COMMON NAME
PE 1298	<i>Achillea millefolium</i>	Common Yarrow
PE 13029	<i>Acorus gramineus hybrids</i>	Japanese Sweet Flag
PE 1310	<i>Agapanthus hybrids</i>	Lily-of-the-Nile (Lily of the Nile)
PE 131	<i>Alstroemeria hybrids</i>	Peruvian Lily (Alstroemeria)
PE 132	<i>Anigozanthus hybrids</i>	Kangaroo Paw
PE 1323	<i>Argyranthemum (Chrysanthemum) frutescens</i>	Marguerite
PE 133	<i>Alstroemeria hybrids</i>	Peruvian Lily (Alstroemeria)
PE 134	<i>Aquilegia hybrids</i>	Columbine
PE 135	<i>Asclepias spp.</i>	Milkweed
PE 136	<i>Bergenia cordifolia</i>	Heartleaf Bergenia
PE 137	<i>Canna hybrids</i>	Canna
PE 138	<i>Carex comans</i>	New Zealand Hair Sedge
PE 139	<i>Centaurea cineraria</i>	Dusty Miller
PE 140	<i>Clivia miniata</i>	Clivia
PE 141	<i>Coreopsis grandiflora</i>	Coreopsis
PE 142	<i>Delphinium elatum</i>	Candle Delphinium
PE 143	<i>Digitalis purpurea</i>	Common Foxglove
PE 144	<i>Ensete ventricosum (Musa ensete)</i>	Abyssinian Banana

PE 145	<i>Erigeron karvinskianus</i>	Mexican Daisy, (Santa Barbara Daisy)
PE 146	<i>Gaillardia x grandiflora hybrids</i>	Gaillardia
PE 147	<i>Gaura lindheimeri 'Siskiyou Pink'</i>	Pink Gaura
PE 148	<i>Geranium sanguineum</i>	Bloody Cranesbill
PE 149	<i>Helleborus orientalis</i>	Lenten Rose
PE 150	<i>Hemerocallis hybrids</i>	Daylily
PE 151	<i>Hesperaloe spp.</i>	Hesperaloe
PE 1512	<i>Heuchera sanguinea</i>	Coral Bells, (Alum Root)
PE 1523	<i>Hosta hybrids</i>	Plantain Lily
PE 1534	<i>Iberis sempervirens</i>	Evergreen Candytuft
PE 1545	<i>Juncus patens</i>	California Gray Rush
PE 1556	<i>Lamium maculatum</i>	Dead Nettle, (Spotted Nettle)
PE 1567	<i>Lavandula angustifolia</i>	English Lavender
PE 1578	<i>Leucanthemum x superbum (Chrysanthemum maximum)</i>	Shasta Daisy
PE 1589	<i>Limonium perezii</i>	Statice, (Sea Lavender)
PE 160	<i>Liriope gigantea (Ophiopogon jaburan)</i>	Giant Lily Turf
PE 15961	<i>Miscanthus sinensis hybrids</i>	Eulalia (Japanese Silver Grass)
PE 1602	<i>Nemesia caerulea (fruticans) hybrids</i>	Nemesia
PE 161	<i>Ophiopogon jaburan (Liriope gigantea)</i>	Giant Lily Turf
PE 1623	<i>Pelargonium x hortorum</i>	Common Geranium, (Garden Geranium)
PE 1634	<i>Penstemon x hybrids</i>	Border Penstemon, (Garden Penstemon)
PE 1645	<i>Salvia greggii</i>	Autumn Sage
PE 1656	<i>Salvia leucantha</i>	Mexican Bush Sage
PE 1667	<i>Scabiosa columbaria 'Butterfly Blue'</i>	Pincushion Flower
PE 1678	<i>Scaevola aemula</i>	Fan Flower
PE 1689	<i>Sutera cordata</i>	Bacopa
PE 16970	<i>Tulbaghia violacea</i>	Society Garlic
PE 1701	<i>Zantedeschia aethiopica</i>	Common Calla
BEDDING PLANTS		
	BOTANICAL NAME	COMMON NAME
BP 1712	<i>Ageratum houstonianum</i>	Floss Flower
BP 1723	<i>Antirrhinum majus</i>	Snapdragon
BP 1734	<i>Begonia semperflorens</i>	Bedding Begonia, (Fibrous Begonia)
BP 1745	<i>Bellis perennis</i>	English Daisy
BP 1756	<i>Calendula officinalis</i>	Calendula, (Pot Marigold)
BP 1767	<i>Calibrachoa hybrids</i>	Million Bells
BP 1778	<i>Catharanthus roseus (Vinca rosea)</i>	Madagascar Periwinkle, (Vinca)

BP 1789	<i>Celosia plumosa</i>	Cockscomb
BP 17980	<i>Cosmos bipinnatus</i>	Cosmos
BP 1801	<i>Cyclamen persicum</i>	Florists' Cyclamen
BP 1812	<i>Dahlia hybrids</i>	Bedding Dahlia
BP 1823	<i>Eustoma grandiflorum (Lisianthus russellianthus)</i>	Lisianthus
BP 1834	<i>Impatiens walleriana</i>	Impatiens
BP 1845	<i>Lobelia erinus</i>	Lobelia
BP 1856	<i>Lobularia maritima</i>	Sweet Alyssum
BP 1867	<i>Matthiola incana</i>	Stock
BP 1878	<i>Papaver nudicaule</i>	Iceland Poppy
BP 1889	<i>Pericallis x hybrida (Senecio x hybridus)</i>	Cineraria
BP 18990	<i>Petunia hybrids</i>	Petunia
BP 1901	<i>Phlox drummondii</i>	Phlox
BP 1912	<i>Portulaca grandiflora</i>	Rose Moss
BP 1923	<i>Primula x polyantha</i>	English Primrose
BP 1934	<i>Salvia farinacea</i>	Mealycup Sage
BP 1945	<i>Solenostemon scutellarioides (Coleus x hybridus)</i>	Coleus
BP 1956	<i>Tagetes hybrids</i>	Marigold
BP 1967	<i>Viola x wittrockiana</i>	Pansy
BP 1978	<i>Zinnia elegans</i>	Zinnia
GROUND COVERS		
	BOTANICAL NAME	COMMON NAME
GC 1989	<i>Ajuga reptans</i>	Carpet Bugle
GC 199200	<i>Aptenia cordifolia</i>	Red Apple
GC 2001	<i>Campanula poscharskyana</i>	Serbian Bellflower
GC 2012	<i>Drosanthemum floribundum</i>	Rosea Ice Plant
GC 2023	<i>Festuca glauca (cineria)</i>	Common Blue Fescue
GC 2034	<i>Hedera helix</i>	English Ivy
GC 2045	<i>Hypericum calycinum</i>	Aaron's Beard, (Creeping St. Johnswort)
GC 2056	<i>Lantana montevidensis (sellowiana)</i>	Trailing Lantana
GC 2067	<i>Mentha requienii</i>	Corsican Mint
GC 2078	<i>Ophiopogon japonicus</i>	Mondo Grass
GC 2089	<i>Osteospermum fruticosum</i>	Trailing African Daisy, (Freeway Daisy)
GC 20910	<i>Pachysandra terminalis</i>	Japanese Spurge
GC 2101	<i>Pratia pedunculata (Laurentia fluviatilis)</i>	Blue Star Creeper
GC 2112	<i>Rosmarinus officinalis</i>	Trailing Rosemary
GC 2123	<i>Sagina subulata</i>	Irish Moss
GC 2134	<i>Soleirolia (Helxine) soleirolii</i>	Baby's Tears

GC 2145	<i>Thymus serpyllum (praecox arcticus)</i>	Woolly Thyme (Mother-Of-Thyme)
GC 2156	<i>Trachelospermum asiaticum</i>	Asian Jasmine
GC 2167	<i>Verbena peruviana (chamaedrifolia)</i>	Verbena
GC 2178	<i>Vinca minor</i>	Dwarf Periwinkle
HOUSE PLANTS		
	BOTANICAL NAME	COMMON NAME
HP 2189	<i>Alpinia vittata</i>	Variegated Ginger
HP 21920	<i>Anthurium andraeanum</i>	Anthurium (Spathe Flower)
HP 2201	<i>Aspidistra elatior</i>	Cast-iron plant
HP 2242	<i>Beaucarnia (Nolina) recurvata</i>	Bottle Palm, Ponytail Palm
HP 2223	<i>Caladium bicolor</i>	Fancy-leafed Caladium
HP 2234	<i>Chamaedorea elegans</i>	Areca Palm
HP 2245	<i>Chlorophytum comosum</i>	Spider Plant
HP 2256	<i>Cissus rhombifolia</i>	Grape Ivy
HP 2267	<i>Cymbidium hybrids</i>	Cymbidium Orchid
HP 2278	<i>Ficus benjamina</i>	Weeping Fig
HP 2289	<i>Ficus lyrata</i>	Fiddleleaf Fig
HP 22930	<i>Howea forsteriana</i>	Paradise Palm, (Kentia Palm)
HP 2301	<i>Kalanchoe blossfeldiana</i>	Kalanchoe
HP 2312	<i>Nephrolepis exaltata 'Bostoniensis'</i>	Boston Fern
HP 2323	<i>Phalaenopsis hybrids</i>	Moth Orchid
HP 2334	<i>Plumeria rubra</i>	Plumeria
HP 2345	<i>Rhapsis excelsa</i>	Lady Palm
HP 2356	<i>Sanseveria trifasciata</i>	Snake Plant, (Mother-In-Law's Tongue)
HP 2367	<i>Schefflera (Dizygotheca) elegantissima</i>	Threadleaf (False) Aralia
HP 2378	<i>Tillandsia cyanea</i>	Air Plant
HP 2389	<i>Tolmiea menziesii</i>	Piggyback Plant
HP 23940	<i>Tradescantia zebrina (Zebrina pendula)</i>	Wandering Jew
CACTI AND SUCCULENTS		
	BOTANICAL NAME	COMMON NAME
CS 2401	<i>Agave americana</i>	Century Plant
CS 2412	<i>Aloe vera</i>	Medicinal Aloe
CS 2423	<i>Calandrinia grandiflora</i>	Rock Purslane
CS 2434	<i>Crassula spp.</i>	Crassula
CS 2445	<i>Echeveria spp.</i>	Echeveria
CS 2456	<i>Euphorbia tirucalli 'Sticks on Fire'</i>	Red Pencil Tree
CS 246	<i>Hesperaloe spp.</i>	Hesperaloe
CS 247	<i>Kalanchoe luciae 'Flapjack'</i>	Paddle Plant
CS 248	<i>Opuntia spp.</i>	Opuntia
CS 249	<i>Sedum spp.</i>	Stonecrop

CS 250	<i>Sempervivum</i> spp.	Sempervivum
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Buds and Grafts, Tools and Materials Identification. ~~Twenty (20)~~ **Fifteen (15)** 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.	Mattock Planter
297.	Minimum/Maximum Thermometer
298.	Nursery Tape
299.	Peat Moss
300.	Peat Pot
301.	Perlite
302.	Pick
303.	Plant Label
304.	Plant/Tree Stake
305.	Pole Pruner
306.	Polyethylene Drip Tube
307.	Pop Up Spray Head
308.	Pot Label
309.	Propagation Flat
310.	Pruning Saw
311.	Root Feeder
312.	Rotor Sprinkler
313.	Round Point Shovel
314.	Sand
315.	Schedule 40 PVC Pipe
316.	Schedule 80 Riser
317.	Screed
318.	Scuffle Hoe
319.	Slow Release Fertilizer (ex: Osmocote)
320.	Soil Probe

321.	Soil Thermometer
322.	Solenoid Valve
323.	Spading Fork
324.	Sphagnum Moss
325.	Spotting Board
326.	Square Point Shovel
327.	Standard Pot
328.	Sulfur
329.	Superphosphate
330.	Swing Arm Riser
331.	Tamp
332.	Tank Sprayer
333.	Trenching Shovel
334.	Vermiculite
335.	Water Breaker
336.	Mattock Planter
337.	Minimum/Maximum Thermometer
338.	Soil Thermometer
339.	Trenching Shovel

Nursery/Landscape Contest
Identification Answer Sheet for Contests without Access to Judging Card

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. _____ |