

# Middle School Floriculture CDE

(rev. Oct 2023)

## Purpose

The Floriculture CDE is designed to promote the study of and interest in production and retailing of flowers, plants and foliage through the agricultural education curriculum.

## Eligibility

(Team structure). Students that are an active member of a chartered Delaware FFA Middle School Chapter may participate. All students competing must have a Delaware FFA Waiver form completed and signed for Floriculture.

## Event Procedures

- A. Each team will be comprised of up to four members. All four scores will be used to determine total team score.
- B. Participants must wear FFA Official Dress for this event.
- C. Under no circumstances will any participant be allowed to touch or handle plant material during the event except during the corsage construction and flower arrangement.
- D. Any communication between participants during the event will be sufficient cause to eliminate the team from the event. The exception to this is the team activity.
- E. Any participant caught cheating during the event will be expelled from the event.
- F. All participants are expected to be prompt at their stations throughout the event.
- G. The event chair will assign the participants to groups so that when possible, no two participants from the same school will be in the same group, except for the team activity.
- H. No team, participant, or coach will be permitted into the event facilities before or during the event.
- I. Any assistance given to a participant from any source during the event, other than a floriculture official, will be sufficient cause to eliminate the team from the event.
- J. All participants will be given an identification number by which they will be designated throughout the event.
- K. Participants will not be allowed to possess any personal electronic devices (i.e. cell phones, smart watches, air pods, etc) other than those approved by event officials. Participants who possess personal electronic devices without prior approval of the event officials will be disqualified from the event.
- L. Students must use only the provided material and the required materials students must provide. Students should not bring hard goods (wire, ribbon, etc.)

## Event Format

This event will have three phases: identification of plant materials, corsage preparation and construction, and team arrangement activity.

### A. Materials students need to provide:

1. Two sharpened No. 2 pencils
2. Scissors
3. Floral shears (NO Floral Knives).

## B. Team Activity

### 1. General Knowledge Examination- 100 points

Teams will answer 50 multiple choice questions that cover the areas of the floriculture industry reflected in the event objectives. This phase of the event will test participants' knowledge and understanding of basic biological and scientific principles of producing and marketing flowers, plants and foliage. Each participant will be allowed 50 minutes to complete the exam. Each answer has a value of two points.

## Individual Activities

### A. Identification of plant materials and equipment (200 points)

Fifty specimens from the floriculture plant and equipment identification list will be displayed for participants to identify by technical and common names. A number will designate each specimen. Four points will be awarded for each specimen that is correctly identified. Each participant will be allowed 25 minutes to complete this phase of the event.

### B. Corsage Preparation & Construction and work order (100 points)

Individually, participants will prepare and construct a single-flower pin corsage. All plant and non-plant materials needed to construct the corsage will be provided. Each participant will be allowed 45 minutes to complete the construction of the corsage. Corsages will be scored using the Delaware Association grading rubric. The total score of this event will be divided by two to reflect the total score. (Use Rubric). Provided materials will be: pre-cut ribbon, flower, greens, filler, bag, and pin.

### C. Floral Arrangement (100 points)

Individually, participants will be given a set amount of floral supplies to construct a centerpiece arrangement. Members will be allotted 30 minutes to complete the arrangement. Scoring criteria are presented on the National FFA Floriculture 'Floral Arrangement Practicum' which will be rec ordered by a judge. Explanation of floral arrangement terms can be found on this scorecard. See High School Floriculture Score Sheet. The rotation for floral designs shall be:

- 2024 Triangular
- 2025 Round
- 2023 Oblong

## Scoring

### Tiebreakers

Phase (based on all 4 participants)	Individual Points	Team Points
Identification of Plant Material	200	800
Corsage Prep/Construction with work order	100	400
Arrangement	100	400
Team Activity– Exam	0	100
<b>Total</b>	<b>400</b>	<b>1700</b>

Ties will be broken using the following procedure in this specific order, unless otherwise noted by the CDE Chair:

1. Individual: Highest Floral arrangement practicum
2. Team: Highest test score.

## **Awards**

Awards will be presented during a session at the Delaware FFA State Convention. In a team event, the top 3 individuals in the state will be recognized on stage. The winning team will be awarded a certificate.

## Floriculture Plant Identification List – 2024

#	Botanical Name	Common Name	#	Botanical Name	Common Name
101	<i>Aechmea fasciata</i> cv.	Bromeliad	149	<i>Eucalyptus polyanthemos</i>	Silver Dollar Eucalyptus
102	<i>Ageratum houstonianum</i>	Floss Flower	150	<i>Euphorbia pulcherrima</i> cv.	Poinsettia
103	<i>Alocasia amazonica</i>	Amazon elephant ear	151	<i>Eustoma grandiflorum</i>	Lisianthus Prairie gentian
104	<i>Aloe vera</i>	Aloe plant	152	<i>Exacum affine</i>	Persian Violet
105	<i>Alstroemeria hybrid</i> cv.	Peruvian Lily	153	<i>Ficus benjamina</i> cv	Benjamin Fig
106	<i>Anemone coronaria</i>	Wind Flower	154	<i>Ficus elastica</i> cv	Rubber Plant
107	<i>Anethum graveolens</i> cv.	Dill	155	<i>Ficus lyrata</i>	Fiddle Leaf Fig
108	<i>Angelonia hybrid</i> cv.	Angelonia	156	<i>Fragaria x ananassa</i> cv.	Strawberry Plant
109	<i>Anthurium x andraeanum</i> cv.	Flamingo Plant	157	<i>Freesia x hybrida</i>	Freesia
110	<i>Antirrhinum majus</i> cv.	Snapdragon	158	<i>Gardenia jasminoides</i>	Gardenia
111	<i>Aphelandra squarrosa</i> cv.	Zebra Plant	159	<i>Gerbera jamesonii</i>	Gerbera Daisy
112	<i>Araucaria heterophylla</i>	Norfolk Island Pine	160	<i>Gladiolus x hortulanus</i> cv.	Gladiolus
113	<i>Asparagus densiflorus</i>	Fox Tail Fern	161	<i>Gomphrena hybrid</i> cv.	Globe Amaranths
114	<i>Aster Amellus</i>	Aster	162	<i>Gypsophila elegans</i> cv.	Baby's Breath
115	<i>Astilbe hybrid</i> cv.	Astilbe	163	<i>Hedera helix</i> cv.	English Ivy
116	<i>Begonia x semperflorens – cultorum</i>	Wax Begonia	164	<i>Helianthus annuus</i>	Sunflower
117	<i>Begonia x tuberhybrida</i> cv.	Tuberous Begonia	165	<i>Hemerocallis</i> cv.	Daylily
118	<i>Caladium x hortulanum</i> cv.	Caladium	166	<i>Hibiscus</i> spp.	Hibiscus
119	<i>Calathea insignis</i>	Rattlesnake plant	167	<i>Hippeastrum hybrid</i> cv.	Amaryllis
120	<i>Calibrachoa hybrid</i> cv.	Million Bells	168	<i>Hosta</i> cv.	Hosta Plantain Lily
121	<i>Callistephus chinensis</i> cv.	China Aster	169	<i>Hoya carnosa</i>	Wax Plant
122	<i>Campanula hybrid</i> cv.	Bell Flower	170	<i>Hyacinthus orientalis</i> cv.	Hyacinth
123	<i>Canna x generalis</i> cv.	Canna	171	<i>Hydrangea macrophylla</i>	Big Leaf Hydrangea
124	<i>Capsicum annuum</i>	Ornamental Pepper	172	<i>Hypoestes phyllostachya</i>	Polka-Dot plant
125	<i>Celosia argentea</i> cv.	Cockscomb	173	<i>Impatiens hawkeri</i>	New Guinea Impatiens
126	<i>Centaurea cyanus</i>	Cornflower, Bachelor's Button	174	<i>Impomoea batatas</i> cv.	Sweet potato vine
127	<i>Chamaedorea elegans</i>	Parlor Palm	175	<i>Iris x xiphium</i> cv.	Dutch Iris
128	<i>Chamelaucium uncinatum</i>	Waxflower	176	<i>Justica brandegeana</i>	Shrimp Plant
129	<i>Cholorophytum comosum</i> cv.	Spider Plant	177	<i>Kalanchoe x blossfeldiana</i> cv.	Kalanchoe
130	<i>Chrysanthemum x morifolium</i>	Chrysanthemum	178	<i>Leucanthemum x superbum</i>	Shasta Daisy
131	<i>Clematis hybrid</i> cv.	Clematis	179	<i>Liatris spicata</i>	Blazing stars
132	<i>Codiaeum variegatum pictum</i>	Croton	180	<i>Lilium hybrid</i> cv.	Asiatic or Oriental Lily
133	<i>Colocasia esculenta</i>	Taro	181	<i>Limonium sinuatum</i>	Statice
134	<i>Cordyline fruticosa</i>	Ti Plant	182	<i>Lobularia maritima</i>	Alyssum
135	<i>Crassula argentea</i>	Jade Plant	183	<i>Mandevilla</i> spp.	Rock Trumpet
136	<i>Cycas revoluta</i> cv.	Sago Palm	184	<i>Maranta leuconeura</i>	Prayer Plant
137	<i>Cyclamen x persicum</i> cv.	Cyclamen	185	<i>Matthiola incana</i> cv.	Stock
138	<i>Cymbidium</i> cv.	Cymbidium Orchid	186	<i>Monstera deliciosa</i>	Split Leaf Philodendron
139	<i>Cymbopogon</i> cv.	Lemongrass (herb)	187	<i>Narcissus hybrid</i> cv.	Daffodil or Narcissus
140	<i>Dahlia hybrid</i> cv.	Dahlia	188	<i>Nephrolepis exaltata</i> cv.	Boston Fern
141	<i>Delosperma</i>	Ice Plant	189	<i>Ocimum basilicum</i> cv.	Basil
142	<i>Delphinium consolida</i> cv.	Larkspur	190	<i>Opuntia</i> cv.	Cactus
143	<i>Dendrobium</i> cv.	Dendrobium Orchid	191	<i>Paeonia</i> cv.	Peony
144	<i>Dianthus caryophyllus</i> cv.	Carnation	192	<i>Paphiopedilum hybrid</i> cv.	Ladyslipper Orchid
145	<i>Dracaena Marginata</i>	Red Edge Dracaena	193	<i>Pelargonium peltatum</i> cv.	Ivy Geranium
146	<i>Echinocactus</i> cv.	Barrel Cactus	194	<i>Pelargonium x hortorum</i> cv.	Zonal Geranium
147	<i>Epipremnum aureum</i> cv.	Golden Pothos	195	<i>Pentas hybrid</i> cv.	Pentas star flower
148	<i>Erica carnea</i> cv.	Winter Heath	196	<i>Peperomia</i> sp.	Peperomia

#	Botanical Name	Common Name
197	<i>Petroselinum crispum cv.</i>	Parsley
198	<i>Petunia x hybrida cv.</i>	Petunia
199	<i>Phalaenopsis cv.</i>	Moth Orchid
200	<i>Philodendron scandens oxycardium</i>	Heartleaf Philodendron
201	<i>Pilea cadierei</i>	Aluminum Plant
202	<i>Portulaca oleracea cv.</i>	Portulaca/ Moss rose
203	<i>Primula malacoides cv.</i>	Primrose
204	<b>Protea sp.</b>	<b>Protea</b>
205	<i>Ranunculus hybrid cv.</i>	Ranunculus/ Buttercups
206	<i>Rhododendron simsii cv.</i>	Azalea
207	<i>Rumohra adiantiformis</i>	Leatherleaf Fern
208	<i>Saintpaulia ionantha cv.</i>	African Violet
209	<i>Salvia splendens cv.</i>	Salvia
210	<i>Sansevieria trifasciata cv.</i>	Snake Plant
211	<i>Schefflera arboricola</i>	Dwarf Schefflera
212	<i>Schlumbergera bridgesii</i>	Christmas Cactus
213	<i>Sempervivum hybrid cv.</i>	Hens and Chicks

#	Botanical Name	Common Name
214	<i>Senecio cineraria</i>	Dusty Miller
215	<b>Senecio rowleyanus</b>	<b>String of Pearls</b>
216	<i>Solenostemon scutellarioides</i>	Coleus
217	<i>Solidago hybrid cv</i>	Solidago
218	<i>Spathiphyllum</i>	Peace Lily
219	<i>Stephanotis floribunda</i>	Stephanotis
220	<i>Strelitzia reginae</i>	Bird of Paradise
221	<i>Syngonium podophyllum</i>	Arrowhead plant
222	<i>Tagetes species cv.</i>	Marigold
223	<b>Tillandsia spp.</b>	<b>Air Plant</b>
224	<i>Tradescantia zebrine</i>	Inch Plant
225	<i>Tulipa cv.</i>	Tulip
226	<i>Verbena hybrid cv.</i>	Verbena
227	<i>Viola x wittrockiana cv.</i>	Pansy
228	<i>Zantedeschia hybrid cv.</i>	Calla Lily
229	<i>Zinnia cv.</i>	Zinnia
230		

## Floriculture Equipment and Supply Identification List

301	#100 Ribbon (satin, sheer, wired)
302	#3 Ribbon (satin, sheer, wired)
303	#40 Ribbon (satin, sheer, wired)
304	#9 Ribbon (satin, sheer, wired)
305	18-Gauge floral wire
306	28-Gauge floral wire
307	Anvil-and-blade pruner
308	Backflow preventer
309	Bouquet sleeve
310	Bulb planter
311	Cardette
312	Cell pack containers
313	Ceramic container
314	Chemical resistant gloves
315	Chenille stem
316	Coconut coir
317	Compressed air sprayer
318	Corsage box
319	Corsage pin
320	Corsage snips
321	Drip emitter, irrigation
322	Dry foam
323	Dust mask
324	Duster
325	Ellepot propagation cubes
326	Enclosure card
327	Fern greening pins
328	Fertilizer injectors
329	Floral adhesive
330	Floral foam
331	Floral knife
332	Floral preservative
333	Floral stem tape

334	Fogger
335	Gas mask
336	Glass vase
337	Glue gun
338	Glue pan
339	Glue sticks
340	Granular fertilizer
341	Greenhouse thermostat
342	Hanging basket
343	Hearing protection
344	Hook-and-blade pruners (bypass pruners)
345	Hose punch
346	Hose repair coupling
347	Hose-end repair fitting
348	Hose-end sprayer
349	Hose-end washer
350	Impulse sprinkler
351	Drip Irrigation tape
352	Irrigation timer
353	Mist nozzle (mist bed)
354	Nosegay holder
355	Nursery container
356	Oscillating sprinkler
357	Peat moss
358	Peat pots
359	Pest strips
360	pH testing meter
361	Polyethylene film
362	Polyethylene pipe
363	Pot covers
364	Propagation mat
365	Propagation trays
366	PVC (polyvinylchloride) pipe
367	PVC pipe cutter
368	Resin-coated fertilizer

369	Respirator
370	Ribbon shears
371	Rice hulls
372	Rockwool propagation cubes
373	Rose and stem flower stripper
374	Safety goggles
375	Sand
376	Scoop shovel
377	Shade fabric
378	Sharpening stone
379	Sheet moss
380	Siphon injector
381	Soil moisture meter
382	Solenoid valve
383	Spaghetti tubing (1/4" diameter or less)
384	Spanish moss
385	Sphagnum moss
386	Spray suit
387	Square point (flat) shovel
388	Styrofoam
389	Surestik cling
390	Tulle
391	Vermiculite
392	Water breaker
393	Water picks
394	Water soluble fertilizer
395	Water tubes
396	Waterproof container tape
397	Wire cutter
398	Wooden pick
399	Wrist corsage holder

# Floral Arrangement Practicum Rubric

**100 POINTS**

<b>Name</b>	<b>Member Number</b>	<b>Chapter/State</b>	<b>Team Number</b>
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<b>Judge Name</b>	<b>Judge's Signature</b>	<b>Date</b>
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	<b>Excellent</b>	<b>Good</b>	<b>Needs Improvement</b>	<b>Member Score</b>
<b>Arrangement</b>	<b>85</b>			
Category interpretation	<b>4-5 points</b> Design follows given scenario within provided parameters and correlates to the appropriate style, shape and design	<b>2-3 points</b> Design slightly followed given scenario but is somewhat lacking in appropriate style, shape, or design	<b>0-1 points</b> Design does not follow given scenario and/or lacks in following the given style, shape, or design	
Balance	<b>7-10 points</b> Design is both visually and physically balanced	<b>4-6 points</b> Design is slightly off balanced	<b>0-3 points</b> Design is not balanced visually or physically	
Creativity	<b>7-10 points</b> Design expresses advanced creative ability and advanced design techniques	<b>4-6 points</b> Design expresses some creative ability and minimal advanced design techniques	<b>0-3 points</b> Design lacks creative ability and Demonstrates limited design techniques	
Depth	<b>7-10 points</b> Placement of materials at different levels is evenly distributed throughout	<b>4-6 points</b> Placement of materials are somewhat distributed evenly	<b>0-3 points</b> Placement of items are not distributed evenly	
Color	<b>7-10 points</b> Color is used evenly/harmoniously throughout	<b>4-6 points</b> Color is used somewhat correctly	<b>0-3 points</b> Color is not used correctly	
Focal emphasis	<b>7-10 points</b> Design has one area of design that attracts the eye	<b>4-6 points</b> Design somewhat has a clear focal point	<b>0-3 points</b> Design does not have a clear focal point	
Line / Rhythm	<b>7-10 points</b> Design has a clear sense of movement created visually by the placement of floral materials	<b>4-6 points</b> Design has a somewhat clear sense of movement created visually by the placement of floral materials	<b>0-3 points</b> Design has no clear sense of movement created visually by the placement of floral materials	
Mechanics	<b>7-10 points</b> Techniques used to keep floral material secure and stable are hidden or done neatly	<b>4-6 points</b> Techniques used to keep floral material secure and stable are somewhat hidden or done neatly	<b>0-3 points</b> Techniques used to keep floral material secure and stable are not hidden or done neatly	
Scale / Proportion	<b>4-5 points</b> Design is the correct size based on container given	<b>2-3 points</b> Design is slightly out of proportion	<b>0-3 points</b> Design is not in proportion with container given	
Unity	<b>4-5 points</b> All principles of designs are present and executed well	<b>2-3 points</b> Some principles of design are executed well	<b>0-1 points</b> None or few principles of design are executed well	
<b>ITEMIZED LIST OF COSTS</b>	<b>15</b>			
Bill of Sale Completion	<b>4-5 points</b> Bill of Sale is completed entirely with a complete list of all items used and totaled	<b>2-3 points</b> Bill of Sale is not entirely complete or missing some items used in the design	<b>0-1 point</b> Bill of Sale is missing a lot of detail and/or missing several items used in the design	
Individual Pricing and Quantity Used	<b>4-5 points</b> All items used in the design are individually listed with correct individual price and quantity totally accurately	<b>2-3 points</b> Some items added incorrectly, or quantity used listed incorrectly.	<b>0-1 point</b> Significant number of items added or listed incorrectly	
Total Bill of Sale Pricing Accuracy	<b>4-5 points</b> Overall bill is legible with labor calculated correctly, and total price is listed accurately within +/- \$0.50 of \$55.00	<b>2-3 points</b> Overall bill includes minor errors, includes parts that are difficult to read or final price slightly off target goal of \$55.00	<b>0-1 points</b> Overall bill includes major errors, difficult to read, or well off target goal of \$55.00.	
<b>TOTAL SCORE (100 points possible)</b>				

# Making and Packing a Corsage Rubric

## 75 POINTS

Name	Member Number	Chapter/State	Team Number	
Judge Name	Judge's Signature		Date	
	Excellent	Good	Needs Improvement	Member Score
<b>Mechanical Application</b>	<b>11–15 points</b> Techniques used to keep floral material secure and stable are hidden or done neatly	<b>6–10 points</b> Techniques used to keep floral material secure and stable are somewhat hidden or done neatly	<b>0–5 points</b> Techniques used to keep floral material secure and stable are not hidden or done neatly	
<b>Color</b>	<b>7–10 points</b> Color is used evenly/harmoniously throughout	<b>4–6 points</b> Color is used somewhat correctly	<b>0–3 points</b> Color is not used correctly	
<b>Creativity</b>	<b>11–15 points</b> Design expresses a high level of creative ability and advanced design techniques.	<b>6–10 points</b> Design expresses some creative ability and minimal advanced design techniques	<b>0–3 points</b> Design lacks creative ability and demonstrated limited design techniques	
<b>Balance</b>	<b>7–10 points</b> Design is physically and visually balanced	<b>4–6 points</b> Design is slightly off balance	<b>0–3 points</b> Design does not follow the principles of design regarding balance	
<b>Design &amp; Category Interpretation</b>	<b>4–5 points</b> Design follows scenario given for an overall cohesive design	<b>2–3 points</b> Design somewhat follows scenario given and overall design is somewhat cohesive	<b>0–1 points</b> Design does not follow given scenario	
<b>Bill of Sale Completion</b>	<b>7–10 points</b> Bill of Sale is completed entirely with a complete list of all items used	<b>5–8 points</b> Bill of Sale is not entirely complete or missing some items used in the design	<b>0–4 points</b> Bill of Sale is missing a lot of detail and/or missing several items used in the design	
<b>Pricing Accuracy (accuracy of pricing identification)</b>	<b>7–10 points</b> All items used in the design are listed with correct price, totally accurately, labor calculated corrected, within 50 cents up or down of \$25.00	<b>4–6 points</b> Some items added incorrectly and/or final price slightly off target goal of \$25.00	<b>0–3 points</b> Significant number of items added incorrectly or way off target goal of \$25.00.	
<b>TOTAL SCORE (75 POINTS POSSIBLE)</b>				

# Corsage Itemized List of Costs

Name	Member Number	Chapter/State	Team Number
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Judge Name	Judge's Signature	Date
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Quantity	Flower/Foliage Used	Unit Cost	Total
<b>TOTAL FLOWER/FOLIAGE MATERIAL COST</b>			

Quantity	Material Used	Unit Cost	Total
<b>TOTAL HARD GOODS COST</b>			

*Total Flower/Foliage Material Cost*

*Total Hard Goods Cost*

*Subtotal*

*Labor 20 %*

**TOTAL CORSAGE COST**