

Floriculture

Purpose

The National FFA Floriculture Career Development Event is designed to create an interest in career preparation for all current and future aspects of the floriculture industry through leadership development and hands on technical skill development using industry standards that are delivered through the agricultural education curriculum.

Floriculture is a discipline of horticulture concerned with the cultivation of flowering and ornamental plants for gardens and the floral industry.

The floriculture industry encompasses the following areas:

- Greenhouse and field production and management.
- Garden center and floral shop management.
- Floral design and management.

Objectives

- Identify plants, plant materials, supplies and equipment utilized in the floriculture industry.
- Demonstrate an understanding of the biological and scientific principles of plant growth and development. Develop the skills underlying propagation, variety development, growth requirements, growing techniques, harvesting, marketing and maintenance of established floriculture plants.
- Identify and recommend solutions for plant disorders.
- Demonstrate the use of elements and principles of design and develop related skills.
- Evaluate marketable floral products for quality and cultural perfection for use in the retail floral industry.
- Identify, select, operate and maintain appropriate supplies and equipment for floriculture production, design and marketing.
- Demonstrate the use of safety procedures and practices in floriculture operations.
- Understand the operation, management and maintenance of facilities for floriculture operations.
- Demonstrate interpersonal skills necessary for successful employment in the floriculture industry.
- Demonstrate proper sales and customer service skills.
- Demonstrate general business practices appropriate to the floriculture industry.
- Effectively work together as a team.

Event Rules

The complete rules, policies and procedures relevant to all National FFA Career and Leadership Development Events may be found in the <u>Guide to CDE and LDE Policies and Procedures</u>.

Each team will be comprised of four members.

- All four scores will be used to determine the total team score.
- It is highly recommended that participants wear FFA Official Dress for this event. Participants may also bring an apron and/or a tool belt and towels.
- Under no circumstances will any participant be allowed to touch or handle plant material during the event except when instructed by the event staff.
- 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.
- Any participant caught cheating during the event will be expelled from the event.
- All participants are expected to be prompt at their stations throughout the event. No provision will be made for tardiness, which will in most cases cause the late participant to lose event points.
- The event superintendent will assign the participants to group leaders who will escort them to various event staging sites. Participants must know their participant number and stay in their assigned group at all times or until told to change leaders by the event superintendent.
- 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.
- All participants will be given an identification number by which they will be designated throughout the event.
- Various computer applications may be utilized throughout the floriculture event.
- Any participant in possession of an electronic and/or communication device in the event area is subject to disqualification.

Event Format

MATERIALS STUDENTS NEED TO PROVIDE:

- Clean clipboard, free of notes.
- Two sharpened No. 2 pencils.
- Prepared resume.
- Completed Job Application, blank applications will be provided at the team orientation meeting.
- Floral cutters/clippers.
- Ribbon shears.
- Wire cutters.
- Calculator Should be battery operated, non-programmable and nonscientific (basic five function only). No other calculators can be used during the event.
- All references to time limits are approximate. The committee reserves the right to adjust to the practicum and anticipated skill of the students

TEAM ACTIVITY (800 POINTS)

Each team will perform an assignment routinely performed in some phase of the floriculture industry that requires teamwork. These tasks will be described in situational terms for presentation to each team. Forty five minutes will be allowed for completing the activity. If a presentation to the judges is required, the presentation portion of the event will take place after the 45 minute time period has ended. Presentation times may vary depending on the assigned task but will not exceed 10 minutes. There will be an additional time allowed after judging is complete for team clean up. All materials, with the exception of floral tools, needed to complete the assignment will be provided. The type of activity and information about the specific tasks will be announced at the beginning of the practicum by the event assistant in charge.

The type of assignments that may be used in this phase of the event include, but are not limited to, the following:

- Prepare floral products for an event.
- Prepare and pack floral products for shipping and updating inventory.
- Create a floral product display.
- Create a greenhouse production and task schedule to meet the needs of a given customer.
- Prepare and display plant material found in a garden center.
- Scoring criteria for the team preparation and presentation are on the Team Activity Rubric, which will be recorded by a judge.

INDIVIDUAL ACTIVITIES

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.

General Knowledge Examination (200 points)

Participants will answer 50 multiple choice questions to test all areas of the floriculture industry as reflected in the event objectives including flowers and material from the wholesaler and how they are handled, stored, and used in the flower shop; knowledge of floral design (arrangement) and marketing of floral products from the floral shop as well as 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 four points.

Test questions will come from the last five years of available National Floriculture CDE Tests. Each year the latest test will be added and the oldest test removed from the pool of questions to be used. National exams can be accessed at FFA.org

Problem-Solving/Decision-Making (200 points)

Each participant will solve 10 problems related to the various aspects of the floriculture industry identified in the event objectives. Each problem will describe the situation or create the problem and list four possible solutions to the problem. The participant must decide on the best possible solution to the problem. All materials and information necessary to solve the problem will be available to the participant as he or she solves the problem. Each participant will be allowed 50 minutes to complete this phase of the event. Each correct solution has a value of 20 points.

Annual Practicums (200 points)

Each participant will complete two annual practicums:

- Floral arrangement
- Job interview
- Growing procedures

Floral Arrangement (100 points)

Make a \$55 retail priced floral arrangement in compliance with the scenario provided. (The \$55 cost will include tax as well as retail mark up for fresh and hard goods and be within fifty cents either way of the \$55.) The event superintendent will announce the type of arrangement during the team orientation meeting. Using the materials provided, participants will be allowed 20 minutes to complete their arrangements and itemized bills. The event assistant at the beginning of the practicum will provide participants with the retail price of the flowers and foliage that they will use in their arrangements. The participant will determine the total arrangement cost using the pricing form provided plus 20% labor on their design. Retail cost of flowers and foliage given to the participant will be determined after polling florists to determine their current retail prices on the flowers and foliage used in the event. Scoring criteria are presented on the Floral Arrangement Practicum scorecard, which will be recorded by a judge.

EXPLANATION OF FLORAL ARRANGEMENT TERMS

Design: Category interpretation: design follows objective/scenario given
Balance: Physical and visual
Creativity: Artistic inventiveness
Depth: Placement of materials at different levels throughout the arrangement
Focal Emphasis: Design has one area of design that attracts the eye to it
Line: Movement
Mechanics: Professional techniques and application
Scale: Proportion
Unity: Cohesiveness of design
Color: harmonious use of color

Job Interview (100 points)

Each participant will appear before an employer (judge) to interview for a position available in the employer's business. The event superintendent will announce specific information about the job for which the participant is applying at the team orientation meeting. Participants will be given two job descriptions, one with a greenhouse skills focus and one with a floral skills focus at the team orientation meeting along with application forms to complete. Participants will be allowed to choose the job they wish to interview for and blank applications prior to participating in the practicum. Participants will be expected to prepare their applications prior to participating in the practicum. Participants will be allowed for the interview. Ten minutes will be allowed for this practicum. Participants will be allowed five minutes to complete the interview and five minutes for judges to score the interview. Scoring criteria are presented on the Job Interview Practicum Rubric, which will be recorded by a judge.

Growing Procedures (100 points)

One of the three activities listed below will be demonstrated on an annual basis. Ten minutes will be allowed for this section including questions from the judges. Seven (7) minutes to complete the assigned task, 1 minute for judges' questions, and 2 minutes for judges scoring.

POTTING OF YOUNG PLANTS (PLUGS OR LINERS)

Participants will be asked to plant young plants in the pots provided. Each participant will be given a group of young plants from which to select their transplants from; an appropriate pot or pots; potting medium; and ID stake and a marking pencil. Scoring criteria are presented on the Potting of Young Plants Practicum Rubric, which will be recorded by a judge.

ASEXUAL PROPAGATION OF PLANTS

Each participant will be provided the parent plant materials and all other materials needed to propagate plants asexually. Using the available materials, participants will take cuttings from the plant before them and stick them in the correct media, best for rooting. Participants should sanitize all equipment and use it appropriately in a safe manner. Scoring criteria are presented on the Asexual Plant Propagation Rubric, which will be recorded by a judge.

PINCHING PLANTS

A plant will be placed before each participant. Participants will be judged on the procedures they follow in pinching the plant in compliance with the scenario provided. Scoring criteria are presented on the Pinching Plants Rubric, which will be recorded by a judge.

Rotational Practicums (75 Points)

In addition to the two annual practicums, ONE practicum will be selected from the list below for each noted year. <u>The three to be used will be identified by the event superintendent in the annual team orientation packet that is available prior to convention on the CDE webpage</u>.

Selling One-on-One

Each participant will assume the role of a sales person in a floriculture business (grower, florist shop, garden center, etc.) A customer (judge) with a specific need will approach the participant. The participant will help the customer meet his or her need by using sales skills. All supplies, information and the business setting in which the participant works will be provided. Ten minutes will be allowed for this practicum. Of the 10 minutes, participants will be allowed one minute to review the given scenario, five minutes for dialogue with the customer and completion of the sales form. Judges will be allowed four minutes to score the participant. Scoring criteria are presented on the selling One-on-One Practicum Rubric, which will be recorded by a judge.

Media Selling

Each participant will be asked to create or evaluate advertising from the following media sources:

- Newspaper/catalog ad
- Radio script
- Newsletter
- Brochure/flyer
- ●—Email

- Social media
- Facebook
- Twitter
- Video YouTube
- Web homepage

All information and materials needed to develop the advertisement will be provided. Up to Fifteen minutes will be allowed for this practicum depending on the task assigned. Scoring criteria are presented on the Media Selling Practicum Rubric, which will be recorded by a judge.

Each participant will make a \$35 retail priced mixed combination planter. All plant materials, growing media and containers will be provided. Twenty (20) minutes will be allowed for each participant to make their mixed combination planter and complete the itemized listing of costs. At the beginning of the practicum, the participant will be provided with the retail price of plants and other materials to be used in their mixed combination planter. The markup is built into the retail price. Selection of materials should be combined to create a floral display according to the acceptable retail practices, using appropriate elements and principles of design within the floral industry. Scoring criteria are presented on the Making a Mixed Combination Planter Rubric, which will be recorded by a judge.

* MAKE AND PACKAGE A CORSAGE (75 POINTS)

Each participant will make and package a \$25 retail priced corsage including 20% labor. The type of corsage and information about the corsage will be provided to the participants through a given scenario at the beginning of the practicum by the event assistant in charge. All plant and non-plant materials needed to construct and package the corsage will be provided. The selection of materials should be combined to create a floral display according to the acceptable retail purposes, using appropriate elements and principles of design. Each participant will be allowed 20 minutes to complete the construction of the corsage and complete an itemized listing of costs for the corsage constructed. Scoring criteria are presented on the Making and Packing a Corsage Rubric, which will be recorded by a judge.

***** IDENTIFYING AND CONTROLLING PLANT DISORDERS (75 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. The participant must identify the item and its classification (nutritional/environmental, insect/pest or disease). The participant must then determine the damage location as well as chemical and culture controls for the disorder. Each participant will identify 15 specimens total for this event.

No specimens or items may be touched or handled in any way. Fifteen (15) minutes will be allowed for this event. Refer to the Disorder Practicum Scorecard for additional details.

The plant disorders will come from the following list of disorders. **NUTRITIONAL AND ENVIRONMENTAL DISORDERS**

- Cold temperature (freeze)
- Cold water damage
- Ethylene damage
- Iron deficiency

DISEASES

- Botrytis Gray mold
- Damping-off
- Downy mildew
- Leaf spot (Black)
- Powdery mildew

INSECTS AND PESTS

- Aphids
- Fungus gnats
- Leaf miner
- Leafhopper
- Mealybugs
- Scale

- Insufficient water damage
- Nitrogen deficiency
- Phosphorus deficiency
 - Root rot
 - Rust
 - Stem rot
 - Tospovirus (INSV and TSWV)
 - Shore flies
 - Snails/Slugs
 - Spider mites
 - Thrips
 - Whiteflies

✤ HANDLING A HAZARDOUS SITUATION (75 POINTS)

Each participant will be presented with a hazardous situation that could develop in a floriculture business. The participant will be asked to explain how to resolve the problem. The participant will be evaluated on their understanding of the problem and procedures and practices followed in resolving the problem. Ten minutes will be allowed for this practicum. Scoring criteria are presented on the Hazardous Situation Rubric, which will be recorded by a judge.

Scoring

Phase	Individual Points	Team Points
Plant and Equipment Identification	200	800
General knowledge	200	800
Problem solving	200	800
Annual practicums - 100 points each * Floral arrangement <u>* Job interview</u> * Growing procedures	200	800
Rotational practicums – 1 selected * Selling * Make a Mixed Planter Combination * Make and Package a Corsage * Identifying/Controlling Plant Disorders * Handling a Hazardous Situation	75	300
Team activity	Φ	800
TOTAL	875	3,500

TIEBREAKERS

Individual

If ties occur, the following events will be used in the listed order to determine award recipients:

- 1. Written exam
- 2:--Plant and equipment identification
- 3. Floral arrangement practicum
- 4. Growing procedures

Team

If ties occur, the following events will be used in the listed order to determine award recipients:

- 1.—Team activity
- 2.—Written exam
- 3. Plant and equipment identification
- 4. Total score for Floral Arrangement Practicum

Awards

Awards will be presented at an awards ceremony to individuals and/or teams based upon their rankings. Awards are sponsored by cooperating industry sponsors as a special project and/or by the general fund of the National FFA Foundation.

References

This list of references is not intended to be all-inclusive.

- Other sources may be utilized, and teachers are encouraged to make use of the very best instructional materials available. The following list contains references that may prove helpful during event preparation.
- National FFA— Past CDE Q&A's, <u>https://www.ffa.org/resources/cde/questions-and-answers</u>
- Principal of Floral Design, Pat Diehl Scace, James M. DelPrince Goodheart Wilcox Publisher. <u>www.g-w.com</u>
- The AIFD Guide to Floral Design: Terms, Techniques, and Traditions The American Institute of Floral Design.
- Introduction to Horticulture Science and Technology. 5th edition, 2015. Schroeder, Seagle Felton, Ruter, Inter- state Publishers, Inc.
- Introductory Horticulture. Carroll Shry, Edward Reiley. Eighth Edition.
- Greenhouse Operation and Management. Paul V. Nelson. Seventh Edition. (Specific reference for the disorders rotational practicum)
- Ball Publishing: Ball Redbook, Volume 1&2, 18th Edition.
- FFA Resume Generator©, <u>resumegenerator.FFA.org</u>

Floriculture Plant Identification List

101	Aechmea fasciata cv.	Silver Vase Bromeliad
102	Ageratum houstonianum	Ageratum
103	Alstroemeria hybrid cv.	Peruvian Lily
104	Anemone coronaria	Anemone
105	Anethum graveolens cv.	Dill
106	Angelonia hybrid cv.	Angelonia
107	Anthurium x andraeanum cv.	Flamingo Plant
108	Antirrhinum majus cv.	Snapdragon
109	Aphelandra squarrosa cv.	Zebra Plant
110	Araucaria heterophylla	Norfolk Island Pine
111	Asparagus densiflorus	Sprengeri Fern
112	Aster pringlei	Monte Cassino Aster
113	Astilbe hybrid cv.	Astilbe
114	Begonia x semperflorens –	Wax Begonia
	cultorum	U U
115	Begonia x tuberhybrida cv.	Tuberous Begonia
116	Caladium x hortulanum cv.	Caladium
117	Calibrachoa hybrid cv.	Million Bells
118	Callistephus chinensis cv.	China Aster
119	Campanula hybrid cv.	Campanula
120	Canna x generalis cv.	Garden Canna
121	Capsicum annuum	Ornamental Pepper
	,	Plant
122	Catharanthus roseus	Vinca
123	Celosia argentea cv.	Cockscomb
124	Chamaedorea elegans	Parlor Palm
125	Chamelaucium uncinatum	Waxflower
126	Cholorophytum comosum cv.	Spider Plant
127	Chrysanthemum x morifolium	Florist's
127		Chrysanthemum
128	Clematis hybrid cv.	Clematis
129	Codiaeum variegatum pictum	
130	Crassula argentea	Jade Plant
131	Cycas revoluta cv.	Sago Palm
132	Cyclamen x persicum cv.	Florist's Cyclamen
133	Cymbidium cv.	Cymbidium Orchid
133 134		Lemongrass (herb)
135	Cymbopogon cv. Dablia bybrid cy	Dahlia
135 136	Dahlia hybrid cv. Delphinium consolida cv.	Larkspur
	Deiphinium consolida cv. Dendrobium cv.	Dendrobium Orchid
137 179		Carnation
138 179	Dianthus caryophyllus cv.	
139 140	Dracaena cincta	Red Edge Dracaena
140 141	Echinocactus cv.	Barrel Cactus
141 142	Epipremnum aureum cv.	Golden Pothos
142	Erica carnea cv.	Spring Heather
143	Eucalyptus polyanthemos	Silver Dollar Eucalyptus
144	Euphorbia pulcherrima cv.	Poinsettia
145	Eustoma grandiflorum	Lisianthus
146	Exacum affine	Persian Violet
147	Ficus benjamina cv	Benjamin Fig
148	Ficus elastica cv	Rubber Plant
149	Fragaria x ananassa cv.	Strawberry Plant
150	Freesia x hybrida	Freesia
	Gardenia jasminoides	Gardenia
151		
152	Gerbera jamesonii	Gerbera Daisy

155	Gypsophila elegans cv.	Baby's Breath
156	Hedera helix cv.	English Ivy
157	Helianthus annuus	Sunflower
158	Hemerocallis cv.	Daylily
159	Hippeastrum hybrid cv.	Amaryllis
160	Hosta cv.	Hosta
161	Hoya carnosa	Wax Plant
162	Hyacinthus orientalis cv.	Hyacinth
163	Hydrangea macrophylla	Big Leaf Hydrangea
164	Impatiens hybrid cv.	Impatiens
165	Impomoea batatas cv.	Ornamental Sweet Potato
166	Iris x xiphium cv.	Dutch Iris
167	Senecio cineraria	Dusty Miller
168	Justica brandegeana	Shrimp Plant
169	Kalanchoe x blossfeldiana cv.	Kalanchoe
170	Leucanthemum x superbum	Shasta Daisy
171	Leucospermum hybrid cv.	Pin Cushion Protea
172	Liatris spicata	Liatris
172	Lilium hybrid cv.	Asiatic or Oriental Lily
173	Linutri Hybrid CV. Limonium sinuatum	Statice
174	Lobularia maritima	Alyssum
176	Maranta leuconeura	Prayer Plant
177	Matahia leaconeara Matthiola incana cv.	Stock
178	Monstera deliciosa	
178	Narcissus hybrid cv.	Split Leaf Philodendron Daffodil or Narcissus
179		Boston Fern
180	Nephrolepis exaltata cv. Ocimum basilicum cv.	Basil
182 197	Opuntia cv.	Cactus
183	Paeonia cv.	Peony
184	Paphiopedilum hybrid cv.	Ladyslipper Orchid
185		
100	Pelargonium x hortorum cv.	Zonal Geranium
186	Pelargonium peltatum cv.	lvy Geranium
187	Pelargonium peltatum cv. Pentas hybrid cv.	Ivy Geranium Pentas
187 188	Pelargonium peltatum cv. Pentas hybrid cv. Petroselinum crispum cv.	lvy Geranium Pentas Parsley
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187 188 190 191 191 193 194 195 196 197 198 197 198 199 200 201 201 202 203 204 204 205	Pelargonium peltatum cv. Pentas hybrid cv. Petroselinum crispum cv. Petunia x hybrida cv. Phalaenopsis cv. Philodendron scandens oxycardium Pilea cadierei Portulaca oleracea cv. Primula malacoides cv. Ranunculus hybrid cv. Rhododendron simsii cv. Rosa hybrid cv Rumohra adiantiformis Saintpaulia ionantha cv. Salvia splendens cv. Sansevieria trifasciata cv. Schefflera arboricola Schlumbergera bridgesii Sempervivum hybrid cv. Senecio x hybridus cv.	Ivy GeraniumIvy GeraniumPentasParsleyPetuniaMoth OrchidHeartleaf PhilodendronAluminum PlantPortulacaPrimroseRanunculusFlorist AzaleaHybrid Tea RoseLeatherleaf FernAfrican VioletSalviaSnake PlantDwarf ScheffleraChristmas CactusHens and ChicksCineraria

National FFA Organization | Career and Leadership Development Events for West Virginia

209	Spathiphyllum	Peace Lily
210	Stephanotis floribunda	Stephanotis
211	Strelitzia reginae	Bird of Paradise
212	Syngonium podophyllum	Nephthytis
213	Tagetes species cv.	Marigold
214	Tradescantia zebrine	Wandering Jew

		Floriculture Revised: March 2022	
215	Tulipa cv.	Tulip	
216	Verbena hybrid cv.	Verbena	
217	Viola x wittrockiana cv.	Pansy	
218	Zantedeschia hybrid cv.	Calla Lily	
219	Zinnia cv.	Zinnia	

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

Name	Member Number	Chapter/State	Team Number

Judge Name

Judge's Signature

Date

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

Mamba

Floral Arrangement Itemized List of Costs

Name	Member Number	Chapter/State	Team Number
Judge Name	Judge's Signature		Date

Quantity	Flower/Foliage	Unit Cost	Total
	TOTAL FLOWER/FOLIAGE MA	TERIAL COST	

Quantity	Material Used	Unit Cost	Total	
TOTAL HARD GOODS COST				

Total Plant Material Cost	
Total Hard Goods Cost	
Sub Total	
Labor 20%	Lc
TOTAL ARRANGEMENT COST*	

*Participants will be provided the retail price of flowers and foliage that they will use in their arrangement by the event official at the beginning of the practicum. The markup is built into the retail price of the flowers and the foliage used in the arrangement.

Asexual Plant Propagation Rubric

100 POINTS

Name	Member Number	Chapter/State	Team Number

Judge Name

Judge's Signature

Date

	Excellent	Good	Needs Improvement		Member Score
Proper sanitation and equipment use	4–5 points Thoroughly covering cutting instrument with a sterile solution	2-3 points Cleaning cutting instrument with solution	0–1 point No sanitation procedures followed or not followed properly	(X2)	
Selection of cuttings	4-5 points Small uniform terminal shoot cuttings	2-3 points Used some cuttings of the same size and type	0–1 point too large, nonterminal shoots, or not uniform in size	(X2)	
Making cuttings	5-6 points Straight, flush even cut of the basal end	3-4 points Some cuttings cut properly and some incorrectly cut	0-2 points basal end cut at angle or damaged	(X2)	
Preparation of cuttings for sticking in growing media	5–6 points Selected/ prepared cuttings that did not require further preparation	3-4 points Selected cuttings that required removal of damaged and/or unneeded foliage	0-2 points left damaged and/or unnecessary foliage on plant	(X2)	
Use of rooting hormone	4–5 points Poured correct amount of rooting hormone into separate container, applied hormone & tapped off excess amount	2–3 points Too much or too little put in separate container, applied correctly but did not tap off extra hormone	0-1 point applied directly from source container and/or did not use rooting hormone	(X2)	
Selection of growing media	5-6 points Select best rooting medium for optimum rooting	3-4 points Select moderate but not best choice for optimum rooting	0-2 points selected incorrect rooting medium	(X2)	
Sticking of cuttings in growing media	5-6 points Creating a dibble in media prior to placing cutting, placing at proper depth, firming media correctly	3-4 points Correctly demonstrated at least 1 or 2 of the correct principles	0–2 points no prior hole made, planted too deep, or left unstable	(X2)	
Cuttings labeled correctly	4–5 points Labeled with date propagated, plant name, and cultivar	2-3 points Labeled with some but not all information required	0-1 point no label present or labeled with incorrect information	(X2)	
Response to questions	5-6 points Answered judges questions correctly	3-4 points Answered some questions correctly TOTAL	0-2 points Did not or incorrectly answered questions SCORE (100 POINTS POSS	(X2)	

Pinching Plants Rubric

Name	Member Numb	er Chapter/St	State Team Number			
Judge Name	Judge's Signa	ture	Date	Date		
	Excellent 8–10 points	Good 4–7 points	Needs Improvement 0–3 points		Membe r Score	
Selection of plant part to pinch	Followed given scenario to determine correct pinch	Some pinches were made in incorrect places on plant	Most all pinches were made on incorrect places	(x2)		
Use of proper procedures in making pinches	Used proper tools and/or techniques in making pinches	Used some but not all proper tools and/or techniques in making pinches	Used few or not any of proper tools and/or techniques in making pinches	(x2)		
Made proper pinches	Plant pinched correctly to get desired effect per instructions	Some pinches were too little or too much to get desired effect per instructions	Most or all of plant pinches would not allow the plant to reach desired effect per instructions	(x2)		
Overall effect of making pinches	The plant will reach desired outcome after pinching, no damage to plant parts left after pinch, and pinches correctly done	The plant will have some difficulty achieving desired outcome, some plant parts left have damage, and some pinches not done correctly	The plant will not be able to achieve desired outcome, much damage to plant part left, and most pinches not done correctly	(x2)		
Answered questions correctly	Answered questions correctly	Answered some questions correctly	Did not or incorrectly answered questions	(x2)		
TOTAL SCORE (50 POSSIBLE POINTS)						

Potting of Young Plants Practicum Rubric

Name	Member Number	Chapter/State	Team Number	
Judge Name	Judge's Signature		Date	

	Excellent	Good	Needs Improvement		Membe r Score
Potting Process					
Selection of plugs or liners	5–6 points Plugs/liners are uniform in size and shape, correct number selected based on pot size provided	3–4 points Plugs/liners are somewhat uniform in size and shape, just slightly off in selecting the correct number	0–2 points Plugs/liners are not uniform in size and shape, correct number not selected based on pot size provided	(x2)	
Proper planting depth	5–6 points Hole is made prior to placing plant in soil, the entire root system is covered, leaving proper stem length visible	3–6 points minor amount of roots are showing, planted slightly too deep	0–2 points A large amount of roots are showing or plant stem is covered with soil	(x2)	
Labeling of plant/pot	5–6 points Labeled with date planted, plant name, and cultivar	3–4 points Labeled with some but not all information required	0–2 points no label present or labeled with incorrect information	(x2)	
Correct growing medium level in pot	5–6 points Growing media is filled to the inner lip of the pot, leaving enough room to water the plant	3–4 points Growing media is filled slightly too high or too low	0–2 points Growing media is left very low or completely fills up the pot	(x2)	
Plug or liner arrangement and angle	5–6 points Plugs/Liners evenly spaced for pot size given and plugs/liners planted in upright position	3–4 points plugs/liners planted slightly too close or too far apart, planting slightly tilting	0–2 points Plugs/liners not spaced corrected and not planted upright	(x2)	
Firmness of growing medium	5–6 points After planting, growing media is tapped/ pressed firmly around each plant leaving the plant upright	3–4 points Growing media is left slightly loose or left slightly too firm restricting plant growth	0–2 points Growing media is not firmed after planting or left entirely too firm restricting plant growth	(x2)	
General appearance (free from handling damage)	5-6 points Final product presented to the judge with plants upright, pot clean, and in sellable condition	3-4 points Final product presented to the judge in slightly sellable condition	0-2 points Final product presented to judge in non-sellable condition	(x2)	
Response to questions	5–6 points Answered questions correctly	3–4 points Answered some questions correctly	0–2 points Did not or incorrectly answered questions	(x2)	
		Ť	OTAL (100 POINTS POSS	IBLE)	

Making and Packing a Corsage Rubric

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

Corsage Itemized List of Costs

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

Quantity	Material Used	Unit Cost	Total	
TOTAL HARD GOODS COST				

TOTAL CORSAGE COST	
Labor 20 %	
Subtotal	
Total Hard Goods Cost	
Total Flower/Foliage Material Cost	

Disorder Practicum Scorecard

75 POINTS

Name

Member Number

Chapter/State

Team Number

		Member Answer	Possible Points	Member Score			
1.	Classification #:		1		9	С	lassification #:
	Identification #:		2			Ic	lentification #:
	Chemical Control #:		1			С	hemical Contro
	Cultural/Biological		1			С	ultural/Biologic
2.	Classification #:		1		10). Ĉ	lassification #:
	Identification #:		2			Ic	lentification #:
	Chemical Control #:		1			С	hemical Contro
	Cultural/Biological		1			С	ultural/Biologic
3.	Classification #:		1		11	. Ĉ	lassification #:
	Identification #:		2			Ic	lentification #:
	Chemical Control #:		1			С	hemical Contro
	Cultural/Biological		1			С	ultural/Biologic
4.	Classification #:		1		12	2. Ĉ	lassification #:
	Identification #:		2			Ic	lentification #:
	Chemical Control #:		1			С	hemical Contro
	Cultural/Biological		1			С	ultural/Biologic
5.	Classification #:		1		13	5. Ĉ	lassification #:
	Identification #:		2			Ic	lentification #:
	Chemical Control #:		1			С	hemical Contro
	Cultural/Biological		1			С	ultural/Biologic
6.	Classification #:		1		ן∠	ί. Ĉ	lassification #:
	Identification #:		2			Ic	lentification #:
	Chemical Control #:		1			С	hemical Contro
	Cultural/Biological		1			С	ultural/Biologic
7.	Classification #:		1		15	5. Ĉ	lassification #:
	Identification #:		2			Ic	lentification #:
	Chemical Control #:		1			С	hemical Contro
	Cultural/Biological		1			С	ultural/Biologic
8.	Classification #:		1			Ī	OTAL POINTS
	Identification #:		2		L	C	LASSIFICATI
	Chemical Control #:		1			1	Diseases
	Cultural/Biological		1			2	Insects/F
	Cantual 4.					3	Nutrition

		Member Answer	Possible Points	Member
9.	Classification #:		1	
	Identification #:	+	2	
	Chemical Control #:		1	
	Cultural/Biological		1	
10.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:	1	1	
	Cultural/Biological		1	
11.	Classification #:	1	1	
	Identification #:	1	2	
	Chemical Control #:	1	1	
	Cultural/Biological	1	1	
12.	Classification #:	1	1	
	Identification #:	1	2	
	Chemical Control #:		1	
	Cultural/Biological		1	
13.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological		1	
14.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological		1	
15.	Classification #:	1	1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological		1	
	TOTAL POINTS		75	

- Pests /Mites
- al/Environmental

IDENTIFICATION

- 01 Aphids
- 02 Black Leaf Spot
- 03 Botrytis Grey Mold
- 04 Cold Temperature (freeze)
- 05 Cold Water Damage
 - 06 Damping-off
 - Downy Mildew 07
 - 08 Ethylene Damage
 - 09 **Fungus Gnats**
 - 10 Insufficient Watering
 - 11 Iron Deficiency
 - 12 Leaf Miner
 - 13 Leafhopper
 - 14 Mealybugs
- Nitrogen Deficiency 15
- **Phosphorus Deficiency** 16
- Powdery Mildew 17
- 18 Root Rot
- 19 Rust
- 20 Scale
- 21 Shore Flies 22
- Snails/ Slugs
- 23 Spider Mites
- 24 Stem Rot
- 25 Thrips
- 26 Tospovirus (INSV and TSWV)
- 27 Whiteflies

CHEMICAL CONTROL

- 1 Fungicide
- 2 Insecticide
- 3 Miticide

1

- 4 Mulluscicide
- 5 No Treatment Listed

CULTURAL CONTROL

- Apply Complete Fertilizer
- 2 Correct/Adjust Temperature
- 3 Correct/Adjust Watering
- 4 Ladybird Beetles
- 5 Nematodes
- 6 Parasitic Wasps
- 7 **Predatory Mites**
- 8 **Reduce Relative Humidity**
- 9 No Treatment Listed

Hazardous Situation Rubric

Judge's Signatu	ıre	Date		
		Dute		
Excellent 4-5 points	Good 2-3 points	Needs Improvement	Weig ht	Membe r Score
as able to identify demonstrate all proper PPE.	Missed only 1 piece of PPE	Did not know or excluded much of the PPE	X 4	
necessary safety azards including ropriate handling f materials and ipment discussed	Most necessary safety hazards including appropriate handling of materials and equipment discussed	Safety hazards and handling considerations not addressed	X 5	
Inderstood and emonstrated the procedures for disposal of the contaminant.	Understood and demonstrated most of the necessary procedures for disposal	Disposal procedures lacked completeness	X 4	
ovided follow-up procedures for ntaminant and to dress prevention.	Provided some follow-up procedures for contaminant and some to address prevention.	Follow up procedures and prevention were missing	X 2	
	as able to identify demonstrate all proper PPE. necessary safety azards including ropriate handling f materials and ipment discussed nderstood and emonstrated the procedures for disposal of the contaminant.	 As able to identify demonstrate all proper PPE. Inecessary safety azards including ropriate handling f materials and ipment discussed Inderstood and equipment discussed Inderstood and encoded follow-up procedures for taminant and to dress prevention 	4-5 points2-3 pointsis able to identify demonstrate all proper PPE.Missed only 1 piece of PPEDid not know or excluded much of the PPEnecessary safety azards including ropriate handling f materials and ipment discussedMost necessary safety hazards including appropriate handling of materials and equipment discussedSafety hazards and handling considerations not addressedInderstood and emonstrated the procedures for disposal of the contaminant.Understood and demonstrated most of the necessary procedures for disposalDisposal procedures for contaminant and some to addressProvided follow-up procedures for taminant and to dress preventionProvided some follow-up procedures for contaminant and some to addressFollow up procedures and prevention were missing	4-5 points2-3 pointsA testateis able to identify demonstrate all proper PPE.Missed only 1 piece of PPEDid not know or excluded much of the PPEX 4necessary safety azards including ropriate handling f materials and ipment discussedMost necessary safety hazards including appropriate handling of materials and equipment discussedSafety hazards and handling considerations not addressedX 5Inderstood and emonstrated the procedures for disposal of the contaminant.Understood and demonstrated most of the necessary procedures for disposalDisposal procedures for completenessX 4Provided some follow-up procedures for taminant and to the some to addressProvided some procedures for contaminant and some to addressFollow up procedures and provention were missingX 2

HORTICULTURE CDE# 105482

Incorrect Marks Correct Mark

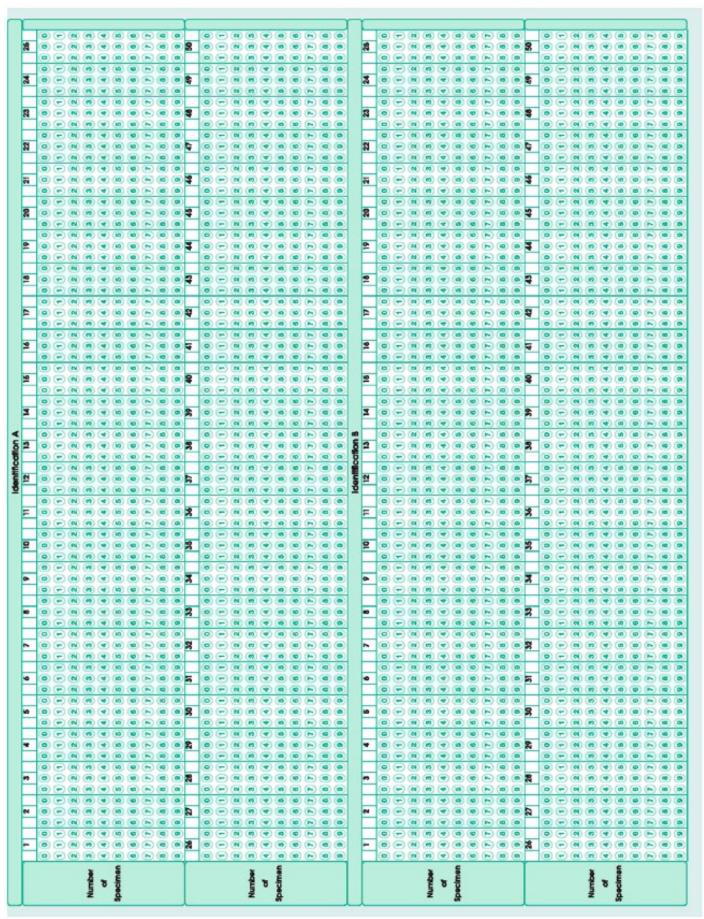
Team Name

This sheet is for demonstration and practice only. You must use a real scan sheet for actual competition.

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Agriculture, Food and Natural Resources Content Standards

Measurements Assessed	Event Activities Addressing Measurements	Related Academic Standards
ABS.01.01. Performance Indicator: App		nciples to plan and manage inputs and
outputs in an AFNR business.		
associated with different inputs and butputs in AFNR businesses (e.g., brice, point of equilibrium,	Exam Problem solving/decision making Selling one-on-one Floral design Mixed combo planter Corsage	CCSS.ELA-Literacy.L.9-10.6 CCSS.ELA-LITERACY.L.11-12.6 CCSS.ELA-LITERACY.RST.9-10.4 CCSS.ELA-LITERACY.RST.11-12.4 CCSS.MATH.CONTENT.HSS.ID.C.7 CCSS.MATH.CONTENT.HSS.IC.B.6 Financial Investing: Benchmarks: Grade 12, Statement 9
ABS.04.03.02.a. Research and ummarize examples that illustrate he importance of risk and uncertainty vithin AFNR businesses.	Selling one-on-one	Financial Investing: Benchmarks: Grade 12, Statement 11 Protecting and Insuring: Benchmarks: Grade 12, Statements 2 Protecting and Insuring: Benchmarks: Grade 12, Statements 3 Protecting and Insuring: Benchmarks: Grade 12, Statements 4
ABS.05.02.02.b. Assess different responses/customer reactions that could be presented during different types of sales calls used in AFNR pusinesses (e.g., competitor prices, competing products, post-sale service, complaints about product, etc.).	Selling one-on-one	CCSS.ELA-LITERACY.SL.9-10.6 CCSS.ELA-LITERACY.SL.11-12.6 CCSS.ELA-LITERACY.RH.9-10.7 CCSS.ELA-LITERACY.RH.11-12.7 Buying Goods & Services: Benchmarks: Grade 12, Statements 1 Buying Goods & Services: Benchmarks: Grade 12, Statements 3 Buying Goods & Services: Benchmarks: Grade 12, Statements 4 Buying Goods & Services: Benchmarks: Grade 12, Statements 5
	sess marketing principles and dev	elop marketing plans to accomplish AFNR
ABS.05.03.02.a. Examine and categorize strategies used in marketing programs for AFNR businesses (e.g., Internet, direct to customer, social media, etc.).	Selling	CCSS.ELA-LITERACY.L.9-10.6 CCSS.ELA-LITERACY.L.11-12.6 CCSS.ELA-LITERACY.RST.9-10.4 CCSS.ELA-LITERACY.RST.11-12.4 CCSS.ELA-LITERACY.W.9-10.2 CCSS.ELA-LITERACY.W.11-12.2 CCSS.ELA-LITERACY.RH.9-10.7 CCSS.ELA-LITERACY.RH.11-12.7 CCSS.ELA-LITERACY.SL.9-10.6 CCSS.ELA-LITERACY.SL.9-10.6 CCSS.ELA-LITERACY.SL.11-12.6 Buying Goods & Services: Benchmarks: Grade 12, Statements 1 Buying Goods & Services: Benchmarks: Grade 12, Statements 3 Buying Goods & Services: Benchmarks: Grade 12, Statements 4 Buying Goods & Services: Benchmarks: Grade 12, Statements 4 Buying Goods & Services: Benchmarks: Grade 12, Statements 7
		lures for the proper maintenance, use and
terilization of equipment in a laborat	tory.	
3S.02.02.03.c. Perform sterilization	Growing procedures (asexual	

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Measurements Assessed	Event Activities Addressing Measurements	Related Academic Standards
BS.02.04.01.b. Assess the need for personal protective equipment and select the appropriate equipment to wear when working with biological and chemical materials.	Equipment list Handling a hazardous situation	CCSS.ELA-Literacy.RST.9-10.4 CCSS.ELA-Literacy.RST.11-12.4
BS.02.04.02.a. Classify and describe hazards associated with biological and chemical materials.	Handling a hazardous situation	CCSS.ELA-Literacy.RST.9-10.4 CCSS.ELA-Literacy.RST.11-12.4
BS.02.04.03.a. Summarize what happens to waste after it leaves the aboratory and examine opportunities to reduce waste and unnecessary costs.		CCSS.ELA-Literacy.RST.9-10.4 CCSS.ELA-Literacy.RST.11-12.4
CS.01.01. Performance Indicator: Exar global levels.	nine issues and trends that impact	AFNR systems on local, state, national and
CS.01.01.01.b. Analyze and document AFNR issues and their impact on local, state, national and global levels.	_	
CS.01.01.02.b. Analyze current trends in AFNR systems and predict their impact on local, state, national and global levels.	Problem solving	
CS.01.02. Performance Indicator: Exa	mine technologies and analyze thei	ir impact on AFNR systems.
CS.01.02.01.b. Apply appropriate use of technologies in AFNR workplace scenarios.	Growing procedures Written exam	
CS.01.02.02.b. Analyze how technology is used in AFNR systems to maximize productivity.	Growing procedures Written exam	
CS.02.01. Performance Indicator: Res	earch geographic and economic da	ta related to AFNR systems.
CS.02.01.02.c. Devise a strategy to solve a problem in an AFNR system using a set of economic data.	Problem solving Team activity – media selling	
CS.02.02. Performance Indicator: Exa state, national and global society and		systems and their impact on the local,
CS.02.02.01.c. Devise a strategy for explaining components of AFNR systems to audiences with limited knowledge.	Team activity Written exam	
CS.02.02.02.c. Evaluate how society traditions, customs or policies have resulted from practices with AFNR systems.	Written exam	
CS.02.02.03.b. Assess the economic mpact of an AFNR system on a local, state, national and global level.	Selling one-on-one Written exam	
CS.03.01. Performance Indicator: Ider environmental management system:		in and improve safety, health and
CS.03.01.01.c. Evaluate how AFNR organizations/businesses promote mproved health, safety and environmental management.	Handling a hazardous situation Plant disorders Written exam	
CS.03.01.02.c. Construct and mplement methods to evaluate compliance with required safety, nealth and environmental management regulations.	Problem solving Handling a hazardous situation Plant disorders Written exam	
CS.03.02. Performance Indicator: Dev compliance and performance.	elop a plan to maintain and improv	

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Measurements Assessed	Event Activities Addressing Measurements	Related Academic Standards
CS.03.02.01.c. Create a plan to improve safety, health and environmental management regulations in an AFNR pusiness.	Handling a hazardous situation	AFNR Career Cluster, Statement 6
CS.03.02.02.c. Devise a strategy to educate employees on environmental compliance and performance in an AFNR business.	Handling a hazardous situation	AFNR Career Cluster, Statement 6
CS.03.03. Performance Indicator: App	ly health and safety practices to AF	NR worksites.
AFNR business.	Handling a hazardous situation	
CS.03.03.02.c. Create a plan to communicate appropriate responses or health and safety situations within on AFNR business.	Handling a hazardous situation	
CS.03.03.03.b. Assess first aid nowledge and procedures relevant o AFNR worksites.	Handling a hazardous situation Written exam	
CS.03.03.04.c. Create a plan to nitigate the level of contamination or njury identified as a risk in the vorkplace.		
	appropriate protective equipment a	and demonstrate safe and proper use of
ne use of appropriate protective	Handling a hazardous situation Plant and tool identification Written exam	
C3.03.04.02.c. Evaluate and select appropriate tools and equipment to complete AFNR tasks.	Handling a hazardous situation Plant and tool identification Written exam	
CS.03.04.03.b. Assess and lemonstrate appropriate operation, torage and maintenance techniques or AFNR tools and equipment.	Handling a hazardous situation	
	ntify and implement practices to ste	ward natural resources in different AFNR
CS.04.01.01.b. Analyze available practices to steward natural resources n AFNR systems (e.g., wildlife and	Growing procedures Plant and tool identification	AFNR Career Cluster, Statement 2 AFNR Career Cluster, Statement 3
CS.04.01.02.b. Analyze and assess ustainability practices that can be	Growing procedures Plant and tool identification Written exam	AFNR Career Cluster, Statement 2 AFNR Career Cluster, Statement 3
S.04.02. Performance Indicator: Ass	ess the natural resource related trer	nds, technologies and policies that impact
AFNR systems.		
CS.04.02.01.b. Analyze natural esources trends and technologies and document how they impact AFNR ystems (e.g., climate change, green echnologies, water resources, etc.).	Written exam	AFNR Career Cluster, Statement 7

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Measurements Assessed	Event Activities Addressing Measurements	Related Academic Standards	
CS.05.01.01.c. Evaluate progress toward AFNR career goals and identify opportunities for improvement and necessary adjustments to one's plan of action.			
CS.05.01.02.c. Implement one's personal plan of action for obtaining the required education, training and experiences and evaluate progress to identify opportunities for improvement and necessary adjustments.	Job interview		
CS.05.01.03.c. Evaluate, update and improve a set of personal tools to reflect current skills, experiences, education, goals, etc., and complete the processes needed to pursue and obtain a career in an AFNR pathway.	Asexual propagation Corsage Floral arrangement Media selling Team activity Selling one-on-one		
CS.05.02. Performance Indicator: Exa	mine careers in each of the AFNR pa	thways.	
CS.05.02.01.c. Interpret and evaluate the results of a personal career assessment and connect them to potential careers in AFNR pathways.	Job interview		
CS.05.02.02.c. Conduct interviews with career professionals within AFNR pathways and summarize the results.	Job interview		
CS.06.01. Performance Indicator: Exp	lain foundational cycles and systems	of AFNR.	
CS.06.01.01.c. Teach others about the impact of foundational cycles within AFNR systems.	Team activity Written exam		
CRP.01.01. Performance Indicator: Mo	del personal responsibility in the wo	rkplace and community.	
CRP.01.01.01.c. Evaluate past workplace and community situations and determine how personal responsibility positively or negatively impacted outcomes.	Team activity		
CRP.01.01.02.c. Model personal responsibility in workplace and community situations.	Job interview Selling Team activity		
CRP.01.02 Performance Indicator: Eva professional decisions on employers		nd long-term impacts of personal and 1.	
CRP.01.02.01.c. Make and defend personal decisions after analyzing their near- and long-term impacts on self and others.	Job interview Problem solving		
CRP.01.02.02.c. Make and defend professional decisions after evaluating their near- and long-term impacts on employers and community.	Job interview		
CRP.02.01. Performance Indicator: Us skills to solve problems in the workp	lace and community.	apply academic learning, knowledge and	
CRP.02.01.01.c. Apply academic knowledge and skills to solve problems in the workplace and reflect upon the results achieved.	Handling a hazardous situation Media selling Plant disorders Problem solving Team activity		

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Measurements Assessed	Event Activities Addressing Measurements	Related Academic Standards
RP.02.01.02.c. Apply academic	MedSarchienes	
nowledge and skills to solve		
roblems in the community and	Media selling	
eflect upon results achieved.		
	se strategic thinking to connect and	apply technical concepts to solve
roblems in the workplace and com		
RP.02.02.01.b. Assess workplace		
problems and distinguish the most	Plant disorders	
ppropriate technical concepts to	Problem solving	
pply.		
	esign and implement a personal well	
	sign and implement a personal well	ness plan.
CRP.03.01.02.b. Analyze the	Floral design	
elationship between personal	Job interview	
vellness and workplace performance.		
RP.03.02. Performance Indicator: De	esign and implement a personal fina	ncial management plan.
RP.03.02.01.a. Research and examine		
omponents in a personal financial	Asexual propagation	
nanagement plan (e.g., income,	Corsage	
xpense, budgeting, savings, credit,	Floral arrangement	
tc.).		
CRP.03.02.02.a. Examine and		
ategorize personal financial practices	Asexual propagation	
e.g., earning, spending, use of	Corsage	
nanagement tools, credit, etc.).	Floral arrangement	
	eak using strategies that ensure cla	rity, logic, purpose and professionalism ir
ormal and informal settings.	· · · · · · · · · · · · · · · · · · ·	······································
CRP.04.01.01.c. Evaluate other's verbal		
nd non-verbal communications (e.g.,	Growing procedure	
peeches, presentations, oral reports,	Job interview	
etc.) and propose recommendations	Selling one-on-one	
or improvement in clarity, logic,	Team activity	
ourpose and professionalism.		
CRP.04.01.02.c. Evaluate personal	Growing procedure	
trengths and areas for growth with	Job interview	
egard to speaking formally and	Selling one-on-one	
nformally with clarity, logic, purpose	Toopoon	
nd professionalism, and identify ways		
o improve. IPP 04 02 Performance Indicator: Pi	roduce clear, reasoned and coherent	written communication in formal and
nformal settings.	oute clear, reasoned and conerent	
CRP.04.02.01.c. Evaluate the		
ffectiveness of different forms of	Job interview	
vritten communication for achieving	Media selling	
heir intended purpose.		
CRP.04.02.02.c. Compose clear and		
oherent written documents (e.g.,	Job interview	
gendas, audio-visuals, drafts, forms,	Media selling	
tc.) for formal and informal settings.		
	odel active listening strategies when	interacting with others in formal and
nformal settings.		
RP.04.03.01.c. Evaluate personal		
ffectiveness and devise a plan to	Selling one-on-one	
mprove active listening skills.		
CRP.04.03.02.c. Model active listening	Job Interview	
trategies in formal and informal	Selling one-on-one	
-		
ettings.	soss identify and synthesize the infe	prmation and resources needed to make

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Measurements Assessed	Event Activities Addressing Measurements	Related Academic Standards
CRP.05.01.01.c. Evaluate workplace	Measurements	
and community decision-making		
processes and devise strategies for	Team activity	
-		
improvement.		
CRP.05.01.02.c. Evaluate workplace		
and community situations and		
recommend the information and	Team activity	
resources needed to support good		
decisions.		
CRP.05.01.03.c. Synthesize information		
and resources and apply to workplace		
and community situations to make	Team activity	
oositive decisions.		
	alve defend and avaluate desisions a	
	ake, defend and evaluate decisions a	
	ronmental, social and economic impa	acts.
CRP.05.02.01.c. Evaluate and defend		
decisions applied in the workplace	Team activity	
and community situations.		
CRP.05.02.02.c. Evaluate workplace		
and community situations and		
propose decisions to be made based		
upon the positive impact made on	Team activity	
environment, social and economic		
areas.		
		d experience to generate original ideas
and challenge assumptions in the wo	orkplace and community.	
CRP.06.01.01.b. Synthesize information,		
knowledge and experiences to		
generate ideas for workplace and	Team activity	
community situations.		•. •• .••
		munity situations to identify ways to add
value and improve the efficiency of p	processes and procedures.	
CRP.06.02.02.b. Predict and		
communicate potential gains in		
efficiency and value-added from	Team activity	
implementing an improved process or	3	
procedure.		
	reate and execute a plan of action to	
		act upon new ideas and introduce
nnovations to workplace and comm	unity organizations.	
CRP.06.03.02.b. Elicit and assimilate		
nput and feedback from individuals		
and organizations about new ideas or	Team activity	
nnovations for the workplace or		
community.		
	lect and implement reliable receared	processes and methods to generate data
or decision-making in the workplace		
	and community.	
CRP.07.01.01.c. Evaluate businesses'		
and organizations' use of research	Plant disorders	
methods and processes and propose		
ecommendations for improvement.		
CRP.07.01.02.b. Assess the positives		
and negatives of using different		
	Plant disorders	
research strategies and methods to		
generate data for workplace and		
community decisions.		
		ta used when considering the adoption of
new technologies, practices and idea		
CRP.07.02.02.b. Assimilate data to		
assist in making a decision about the		
	Diant disardara	
adoption of a new technology,	Plant disorders	
practice or idea by workplaces and		
community organizations.		

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Measurements Assessed	Event Activities Addressing Measurements	Related Academic Standards
CPP 08 01 Performance Indicator: Ar	poly reason and logic to evaluate wor	kplace and community situations from
multiple perspectives.	ply leason and logic to evaluate wor	kplace and community situations nom
CRP.08.01.01.c. Evaluate how applying	Problem solving	
critical thinking skills can impact	Team activity	
workplace and community situations.		
CRP.08.01.02.b. Assess solutions to		
workplace and community problems	Job interview	
for evidence of reason, logic and	Plant disorders	
consideration of multiple perspectives.		
		ons to solve problems in the workplace
and community.	vestigate, prioritize and select solution	shis to solve problems in the workplace
CRP.08.02.01.c. Devise strategies to		
evaluate the effectiveness of solutions		
for resolving workplace and	Team activity	
community problems.		
CRP.08.02.02.c. Evaluate and select		
solutions with greatest potential for	Problem solving	
success to solve workplace and	Team activity	
community problems.		
	utablich plane to colve workerlage and	community problems and execute them
	stabilish plans to solve workplace and	community problems and execute them
with resiliency.		
CRP.08.03.01.c. Evaluate the		
effectiveness of different problem-	Handling a hazardous situation	
solving models for reaching a solution	Problem solving	
to workplace and community issues.		
CRP.08.03.02.c. Implement and		
evaluate plans to solve workplace and	Handling a hazardous situation	
community problems.	Problem solving	
CRP.09.01. Performance Indicator: Mo	adel characteristics of ethical and eff	active leaders in the workplace and
community (e.g. integrity, self-aware		ective leaders in the workplace and
	ness, sen-regulation, etc.j.	
CRP.09.01.01.c. Evaluate ethical and	Job interview	
effective leadership characteristics	Team activity	
demonstrated by others.		
CRP.09.02.01.c. Evaluate opportunities		
to apply personal management skills	Team activity	
into daily tasks and responsibilities.	-	
CRP.09.02.02.c. Model personal		
management skills and identify		
opportunities for continuous	Team activity	
improvement.		
		to a positive morale and culture in the
workplace and community (e.g., posi	tively influencing others, effectively o	communicating, etc.).
CRP.09.03.01.b. Analyze the		
relationship between demonstrating		
respectful and purposeful behaviors		
(e.g., collaborative, clear expectations,	Team activity	
etc.) and increased influence in the		
workplace and community.		
CRP.09.03.02.b. Devise strategies for		
continuation and improvement of		
respectful and purposeful behaviors		
that contribute to positive morale and	Team activity	
culture in workplace and community		
(e.g., recognize others' skills, promote		
collaboration, etc.).		
CRP.10.01. Performance Indicator: Ide	ntify career opportunities within a es	preer cluster that match personal
interests, talents, goals and preferen	ces.	
CRP.10.01.01.c. Plan a career path		
based on personal interests, goals,	Job interview	
talents and preferences.		

Measurements Measurements<			Revised: March 2022
opportunities in career clusters with personal interview Job interview personal interview Job interview CRP10.02.2 Performance Indicator: Examine career advancement requirements (e.g., education, certification, training, etc.) and create goals for continuous growth in a chosen career. Job interview CRP10.02.02.b. Create goals for personal improvement and continuous growth in a career area. Job interview Job interview CRP.10.03.02.b. Create goals in a chosen career area. CRP.10.03.01b. Assess career and personal goals and determine additional information career area superts could provide. Job interview CRP.10.03.01b. Assess career and personal goals and determine additional information career area superts could provide. Job interview CRP.10.04.02. Select and use appropriate tools to pursue career advancement opportunities and ssimilate feedback from the process to identify improvements for the future. Entire event. CRP.10.04.02.c. Apply skills to complete controm processes involved in pursuing a career and assimilate exit to improve. Entire event. CRP.10.01.b. Analyze advantages and disdvantages of new technologies, tools and applications to maximize productivity in the workplace and community. Plant disorders Written exam CRP.10.01.b. Analyze advantages and applications in wakinge and applications in wakinge and community. Plant disorders Written exam CRP.10.02.b. Select angly and use new technologies, tools and applications in wakinga	Measurements Assessed	Event Activities Addressing Measurements	Related Academic Standards
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CRP.1002.01c. Devise and implement plans to complete the requirements OC areer advancement. Do interview CRP.1002.02b. Create goals for personal improvement and continuous growth in a career area. Do interview CRP.1003.01b. Assess career and personal goals and determine additional information career area experts could provide. Do interview CRP.1003.02b. Assess career and personal goals and determine additional information career area. Do interview CRP.1003.02b. Assess career and personal goals and determine additional information career area. Do interview CRP.1004.02c. Select and use appropriate tools to pursue career advancement opportunities and assimilate feedback from the process inoute feedback from experts (e.g., complete cols to pursue career advancement opportunities and assimilate feedback from experts (e.g., mentors, teachers, business persons, etc.) to improve. Entire event CRP.1004.02c. Apply skills to complete cols to pursue input and feedback from experts (e.g., mentors, teachers, business persons, etc.) to improve. Entire event CRP.110.12b. Select, apply and use new technologies, tools and applications to maximize productivity in the workplace and community. Plant disorders Written exam CRP.110.12b. Select, apply and use new technologies, tools and applications to maximize productivity. Plant disorders Written exam CRP.110.12b. Select, apply and use new technologies, tools and applications to maximize productivity. Plant disorders Written exam CRP.120.10c. Evaluate the disorders dream			nents (e.g., education, certification,
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for career advancement.			
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	methods to obtain feedback from		
atter completing workplace and		Team activity	
	after completing workplace and		
community projects. CRP.12.01.03.c. Evaluate personal level			
of cultural and global competence			
and implement plans for growth and Team activity		Team activity	
improvement in workplace and	improvement in workplace and		
community situations.	community situations.		

		Floriculture Revised: March 2022 3
Measurements Assessed	Event Activities Addressing Measurements	Related Academic Standards
	eate and implement strategies to a	engage team members to work toward team
	of workplace and community situ	ations (e.g., meetings, presentations, etc.).
CRP.12.02.01.c. Create novel strategies to engage team members based on the situation.	Team activity	
CRP.12.02.02.c. Evaluate the effectiveness of strategies to engage leam members in a variety of workplace and community situations.	Team activity	
ESS.01.01. Performance Indicator: An systems.	alyze and interpret laboratory and	field samples in environmental service
ESS.01.01.01.c. Collect and prepare sample measurements using	Asexual propagation Growing	CCSS.ELA-LITERACY.SL.11-12.5 CCSS.ELA-LITERACY.RST.11-12.9 CCSS.MATH.CONTENT.HSN.Q.A.1 CCSS.MATH.CONTENT.HSN.Q.A.2
appropriate data collection techniques.	process	CCSS.MATH.CONTENT.HSN.Q.A.3 CCSS.MATH.CONTENT.HSS.ID.A.2 CCSS.MATH.CONTENT.HSS.ID.B.5 HS-ESS2-2
ESS.01.02. Performance Indicator: Pr (e.g., laboratory equipment, environ		s in environmental monitoring situations c.).
ESS.01.02.02.a. Identify basic environmental monitoring instruments and explain their uses.	Equipment identification	
	e pollution control measures to ma	aintain a safe facility and environment.
ESS.04.01.03.c. Construct a plan for nandling hazardous waste in given situations.	Handling a hazardous situation	HS-ETS1-2
	assify different types of natural res	sources in order to enable protection,
conservation, enhancement and ma		nical region.
		AFNR Career Cluster – Natural Resources Systems Pathway, Statement 3 CCSS.ELA-LITERACY.RST.11-12.1 CCSS.ELA-LITERACY.RST.11-12.7 CCSS.ELA-LITERACY.RST.11-12.8
NRS.01.02.02.b. Apply identification echniques to determine the species of an herbaceous plant.	Plant identification	CCSS.ELA-LITERACY.WHST.9-10.2 CCSS.ELA-LITERACY.WHST.11-12.2 CCSS.ELA-LITERACY.WHST.9-10.7 CCSS.ELA-LITERACY.WHST.11-12.7 CCSS.ELA-LITERACY.WHST.9-10.9 CCSS.ELA-LITERACY.WHST.11-12.9
		CCSS.MATH.CONTENT.HSN-Q.A.1 CCSS.MATH.CONTENT.HSN-Q.A.2 HS-ESS3-2 AFNR Career Cluster – Natural Resources
NRS.01.02.03.b. Apply identification echniques to determine the species of wildlife or insect.	Plant disorders	Systems Pathway, Statement 3 CCSS.ELA-LITERACY.RST.11-12.1 CCSS.ELA-LITERACY.RST.11-12.7 CCSS.ELA-LITERACY.RST.11-12.8 CCSS.ELA-LITERACY.WHST.9-10.2 CCSS.ELA-LITERACY.WHST.11-12.2 CCSS.ELA-LITERACY.WHST.9-10.7 CCSS.ELA-LITERACY.WHST.9-10.7 CCSS.ELA-LITERACY.WHST.9-10.9
		CCSS.ELA-LITERACY.WHST.11-12.9 CCSS.MATH.CONTENT.HSN-Q.A.1 CCSS.MATH.CONTENT.HSN-Q.A.2 HS-ESS3-2

		Floriculture
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Measurements Assessed	Event Activities Addressing Measurements	Related Academic Standards
NRS.01.02.05.a. Research and examine the characteristics used to identify non-living resources (e.g., soil types, climate, geography, etc.).	Equipment Identification	AFNR Career Cluster – Natural Resources Systems Pathway, Statement 3 CCSS.ELA-LITERACY.RST.11-12.1 CCSS.ELA-LITERACY.RST.11-12.7 CCSS.ELA-LITERACY.RST.11-12.8 CCSS.ELA-LITERACY.WHST.9-10.2 CCSS.ELA-LITERACY.WHST.9-10.7 CCSS.ELA-LITERACY.WHST.9-10.7 CCSS.ELA-LITERACY.WHST.9-10.9 CCSS.ELA-LITERACY.WHST.9-10.9 CCSS.ELA-LITERACY.WHST.11-12.9 CCSS.MATH.CONTENT.HSN-Q.A.1 CCSS.MATH.CONTENT.HSN-Q.A.2 HS-ESS3-2
NRS.04.02. Performance Indicator: Di spread.	iagnose plant and wildlife diseases a	and follow protocols to prevent their
NRS.04.02.01.b. Analyze a plant disease based on its symptoms, identify if the disease needs to be reported to authorities and determine which authorities it should be reported to.	Plant disorders	CCSS.ELA-LITERACY.RST.11-12.7 CCSS.ELA-LITERACY.RST.11-12.8 CCSS.ELA-LITERACY.WHST.11-12.2 CCSS.ELA-LITERACY.WHST.11-12.7 CCSS.ELA-LITERACY.WHST.11-12.8 CCSS.ELA-LITERACY.WHST.11-12.9 CCSS.MATH.CONTENT.HSN-Q.A.1 CCSS.MATH.CONTENT.HSN-Q.A.2 CCSS.MATH.CONTENT.HSN-Q.A.3 HS-LS2-7
PS.01.01. Performance Indicator: Dete	ermine the influence of environment	tal factors on plant growth.
PS.01.01.01.c. Analyze plant responses to varied light color, intensity and duration and recommend modifications to light for desired plant growth.	Plant disorders	
PS.01.01.02.c. Design, implement and evaluate a plan to maintain optimal air and temperature conditions for plant growth.	Written exam	
PS.01.01.03.c. Analyze plant responses to water conditions and recommend modifications to water for desired plant growth.	Growing practicum Plant disorders Written exam	
PS.01.02. Performance Indicator: Prep	pare and manage growing media for	r use in plant systems.
PS.01.02.01.c. Formulate and prepare growing media for specific plants or crops.	Growing practicum Mixed combo planter	
PS.01.02.02.c. Determine the hydraulic conductivity for soil and how the	Growing practicum Writton exam	

PS.01.03. Performance Indicator: Develop and implement a fertilization plan for specific plants or crops.

Written exam

results influence irrigation practices.

PS.01.03.01.c. Monitor plants for signs	Growing practicum	
of nutrient deficiencies and prepare a	51	CCSS.MATH.CONTENT.HSN.Q.A.2
scouting report to correct elements		CCSS.MATH.CONTENT.HSN.Q.A.2 CCSS.MATH.CONTENT.HSN.Q.A.3
	Written exam	CC35.MATTI.CONTENT.ITSN.Q.A.5
field or greenhouse.	Whitehexam	

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Measurements Assessed	Event Activities Addressing Measurements	Related Academic Standards
PS.01.03.02.c. Adjust the pH of growing media for specific plants or crops.	Plant disorders Written exam	CCSS.MATH.CONTENT.HSN.Q.A.2 CCSS.MATH.CONTENT.HSN.Q.A.3
PS.01.03.03.c. Prescribe fertilizer applications based on the results of a aboratory analysis of soil and plant issue samples.	Plant disorders Problem solving Written exam	CCSS.MATH.CONTENT.HSN.Q.A.2 CCSS.MATH.CONTENT.HSN.Q.A.3
PS.01.03.05.b. Assess production methods for their short- and long- term effects on soil.	Plant disorders Written exam	CCSS.MATH.CONTENT.HSN.Q.A.2 CCSS.MATH.CONTENT.HSN.Q.A.3
PS.01.03.06.c. Devise a plan to meet plant nutrient needs based on environmental factors present.	Plant disorders Written exam	CCSS.MATH.CONTENT.HSN.Q.A.2 CCSS.MATH.CONTENT.HSN.Q.A.3
PS.02.01. Performance Indicator: Clas	sify plants according to taxonomic	systems.
PS.02.01.02.c. Identify and describe important plants to agricultural and ornamental plant systems by scientific names.	Plant identification Written exam	
PS.02.02. Performance Indicator: App activities associated with plant syste		d the functions of plant structures to
PS.02.02.01.b. Compare and contrast mitosis and meiosis.	Written exam	HS-LS1-4
PS.02.02.03.c. Evaluate the function of the xylem, phloem and cambium tissues and the impact on plant systems.	Written exam	HS-LS1-4
PS.02.02.04.c. Devise a plan for plant management practices that takes into account leaf structure and functions.	Team activity – crop schedule	HS-LS1-4
PS.02.02.05.c. Evaluate flower structures and analyze the impact of plant structure on plant breeding, production and use.	Written exam	HS-LS1-4
PS.02.02.06.b. Analyze and categorize the major types of seeds and fruit.	Written exam	HS-LS1-4
PS.02.03. Performance Indicator: App	bly knowledge of plant physiology a	and energy conversion to plant systems.
PS.02.03.01.c. Evaluate the impact of ohotosynthesis and the factors that affect it on plant management, culture and production problems.	Plant disorders Problem solving Team activity – crop schedule Written exam	HS-LS1-5
PS.02.03.02.c. Evaluate the impact of blant respiration on plant growth, crop management and post-harvest handling decisions.	Floral arrangement Problem solving Team activity Written exam	HS-LS1-5
PS.03.01. Performance Indicator: Den	nonstrate plant propagation techni	ques in plant system activities.
PS.03.01.01.b. Examine and describe the process of plant pollination and/or rertilization.	Written exam	
PS.03.01.03.c. Evaluate asexual propagation practices based on productivity and efficiency.	Growing procedures	
PS.03.02. Performance Indicator: Dev	elop and implement a managemer	nt plan for plant production.
PS.03.02.01.b. Inspect propagation material for evidence of pests or disease.	Growing procedures Plant disorders	CCSS.ELA-Literacy.RI.9-10.1 CCSS.ELA-Literacy.RI.9-10.8 CCSS.ELA-Literacy.RST.9-10.3

Measurements Assessed	Event Activities Addressing Measurements	Related Academic Standards
		CCSS.ELA-Literacy.WHST.9-10.2
		CCSS.ELA-Literacy.WHST.9-10.4
		CCSS.ELA-Literacy.WHST.9-10.9
		CCSS.ELA-Literacy.RI.9-10.1
PS.03.02.02.b. Prepare soil and		CCSS.ELA-Literacy.RI.9-10.8
growing media for planting with the	Growing procedures	CCSS.ELA-Literacy.RST.9-10.3
addition of amendments.	Team activity	CCSS.ELA-Literacy.WHST.9-10.2
addition of amendments.		CCSS.ELA-Literacy.WHST.9-10.4
		CCSS.ELA-Literacy.WHST.9-10.9
DC 07 02 05 a Dranara plant		CCSS.ELA-Literacy.RI.9-10.1
PS.03.02.05.c. Prepare plant		CCSS.ELA-Literacy.RI.9-10.8
production schedules utilizing plant	Team activity	CCSS.ELA-Literacy.RST.9-10.3
growth knowledge to get plants to		CCSS.ELA-Literacy.WHST.9-10.2
their optimal growth stage at a given time.		CCSS.ELA-Literacy.WHST.9-10.4
ume.		CCSS.ELA-Literacy.WHST.9-10.9
		CCSS.ELA-Literacy.RI.9-10.1
Da 07 02 06 b. Compare and contract		CCSS.ELA-Literacy.RI.9-10.8
Ps.03.02.06.b. Compare and contrast the types of technologies used for	Equipment identification	CCSS.ELA-Literacy.RST.9-10.3
	Written exam	CCSS.ELA-Literacy.WHST.9-10.2
controlled atmosphere production.		CCSS.ELA-Literacy.WHST.9-10.4
		CCSS.ELA-Literacy.WHST.9-10.9
		CCSS.ELA-Literacy.RI.9-10.1
PS.03.02.07.b. Compare and contrast		CCSS.ELA-Literacy.RI.9-10.8
the types of systems used in hydroponic and aquaponic plant production.	Equipment identification	CCSS.ELA-Literacy.RST.9-10.3
	Written exam	CCSS.ELA-Literacy.WHST.9-10.2
		CCSS.ELA-Literacy.WHST.9-10.4
		CCSS.ELA-Literacy.WHST.9-10.9
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PS.03.03. Performance Indicator: Develop and implement a plan for integrated pest management for plant production.

PS.03.03.01.c. Devise solutions for plant	Plant disorders	
pests, diseases and disorders.	Written exam	
PS.03.03.02.b. Predict pest and disease	Plant disorders	
problems based on environmental	Problem solving	
conditions and life cycles.	Written exam	
PS.03.03.04.b. Examine and apply procedures for the safe handling, use and storage of pesticides including personal protective equipment and reentry interval.	Handling a hazardous situation	

PS.03.05. Performance Indicator: Harvest, handle and store crops according to current industry standards.

PS.03.05.01.b. Assess the stage of growth to determine crop maturity or marketability and demonstrate proper harvesting techniques.	Mixed combo planter	CCSS.ELA-Literacy.RST.9-10.3 CCSS.ELA-Literacy.RST.9-10.4 CCSS.ELA-Literacy.WHST.9-10.2a
PS.03.05.03.b. Research and analyze practices used to maintain a safe product through harvest, processing, storage and shipment (e.g., Food Safety Modernization Act, Good Agricultural Practices, etc.).	Handling a nazardous situation	CCSS.ELA-Literacy.RST.9-10.3 CCSS.ELA-Literacy.RST.9-10.4 CCSS.ELA-Literacy.WHST.9-10.2a
PS.03.05.04.b. Analyze the proper conditions required to maintain the quality of plants and plant products held in storage and during shipping.	Team activity	CCSS.ELA-Literacy.RST.9-10.3 CCSS.ELA-Literacy.RST.9-10.4 CCSS.ELA-Literacy.WHST.9-10.2a
PS.03.05.05.b. Demonstrate techniques for grading, handling and packaging plants and plant products for distribution.	Team activity	CCSS.ELA-Literacy.RST.9-10.3 CCSS.ELA-Literacy.RST.9-10.4 CCSS.ELA-Literacy.WHST.9-10.2a

Measurements Assessed	Event Activities Addressing Measurements	Related Academic Standards
PS.04.01. Performance Indicator: Eva	luating, identifying and preparing pl	ants to enhance an environment.
PS.04.01.01.c. Implement a design that uses the proper plants based on the situation and environment.	Corsage Floral arrangement Growing procedures Mixed combo planter Team activity	
PS.04.01.02.c. Evaluate a design and provide feedback and suggestions for improvement (e.g., a floral arrangement, a landscape or a landscape plan, etc.).	Corsage Floral arrangement Mixed combo planter Team activity	
PS.04.02. Performance Indicator: Create designs using plants.		
PS.04.02.01.c. Analyze designs to identify use of design principles and elements.	Corsage Floral arrangement Growing procedures Mixed combo planter Team activity	AFNR Career Cluster – Natural Resources Systems Pathway, Statement 3 AFNR Career Cluster – Plant Systems Pathway, Statement 2 STEM Career Cluster, Statement 4
PS.04.02.02.c. Evaluate the proper use of design tools in creating designs.	Corsage Floral arrangement Growing procedures Mixed combo planter Team activity	AFNR Career Cluster – Natural Resources Systems Pathway, Statement 3 AFNR Career Cluster – Plant Systems Pathway, Statement 2 STEM Career Cluster, Statement 4