

Floriculture

Academic Content Area: Environment and Ecology – Grade 10

Career Development Event Content

1. Identify floriculture and bedding plant materials.
2. Understand the biological and scientific principles and develop the skills underlying propagation, growth requirements, growing techniques, harvesting, marketing and maintenance of established floriculture plants.
3. Identify and select appropriate supplies and equipment for the flower shop and greenhouse.
4. Operate and maintain appropriate equipment for floriculture operations.
5. Understand and demonstrate proper sales and service.
6. Maintain records and proper reports that are accurate and legible.

Related Academic Standards/Anchors

Objectives 1-6: **4.5.10.A,B,C; 4.9.10A**

Connecting Examples: CDE Objectives and Standards/Anchors

Ex. 1 – Related to 4.5.10.A: Identify similar classifications of pests that may or may not have similar effects on different regions. **During the floriculture career development event, students must be prepared to identify possible pests for different regions. For example, students may need to identify a pest or pests within a particular growing environment (tropical greenhouse).**

Ex. 2 – Related to 4.5.10.B: Analyze health benefits and risks associated with integrated pest management. **Students must understand the possible health risks and benefits associated with integrated pest management, because they will need to exhibit these abilities throughout the career development event.**

Ex. 3 – Related to 4.9.10.A: Explain why environmental laws and regulations are developed and enacted. **Students must have an understanding of the environmental laws and regulations that apply to the floriculture industry. Students will need to include such regulations during specific practicums.**

Floriculture

Academic Content Area: Mathematics – Grade 11

Career Development Event Content

1. Identify floriculture and bedding plant materials.
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3. Identify and select appropriate supplies and equipment for the flower shop and greenhouse.
4. Operate and maintain appropriate equipment for floriculture operations.
5. Understand and demonstrate proper sales and service.
6. Maintain records and proper reports that are accurate and legible.

Related Academic Standards/Anchors

Objectives 1-6: 2.1.11.A; 2.2.11.A,B; 2.3.11.A,C; 2.5.11.A,B,C,D; 2.7.11.E

Connecting Examples: CDE Objectives and Standards/Anchors

Ex. 1 – Related to 2.2.11.A: Develop and use computation concepts, operations and procedures with real numbers in problem-solving situations. **Students in the floriculture career development event must complete at least three problem-solving situations. Most of the problem-solving practicums require a use of computation concepts, operation and procedures. For example, during one situation, students were asked to determine the price of carnations per dozen and per bloom when given a wholesaler bill and employer operation at a 3.5 to 1 markup.**

Ex. 2 – Related to 2.3.11.C: Demonstrate the ability to produce measures with specified levels of precision. **Students must be able to use measuring devices for an outcome with a certain degree of precision. For example, students were required to calculate the square footage of greenhouse roofs to be covered with a particular material. In addition, the students were required to determine which material would allow for appropriate lighting and thermal conductivity.**

Floriculture

Academic Content Area: Reading, Writing, Speaking and Listening – Grade 11

Career Development Event Content

1. Identify floriculture and bedding plant materials.
2. Understand the biological and scientific principles and develop the skills underlying propagation, growth requirements, growing techniques, harvesting, marketing and maintenance of established floriculture plants.
3. Identify and select appropriate supplies and equipment for the flower shop and greenhouse.
4. Operate and maintain appropriate equipment for floriculture operations.
5. Understand and demonstrate proper sales and service.
6. Maintain records and proper reports that are accurate and legible.

Related Academic Standards/Anchors

Objectives 1-6: 1.1.11.A,C,E,F; 1.2.11.A,B; 1.4.11.C,D,E; 1.5.11.A,B,F; 1.6.11.A,C,D,E,F

Connecting Examples: CDE Objectives and Standards/Anchors

Ex. 1 – Related to 1.2.11.B: Use and understand a variety of media and evaluate the quality of material produced. Sub-point, use, design and develop a media project that expands understanding. **Students must develop a one-page sales brochure, a newspaper advertisement, or the layout for a television advertisement as one of the practicums within the floriculture career development event.**

Ex. 2 – Related to 1.4.11.C: Write persuasive pieces. **Students will engage in a job interview for a position assigned to them within the floriculture industry. Also, students will engage in a real telephone sale situation. They will need to persuade the audience to purchase the product they are offering.**

Ex. 3 – Related to 1.6.11.C: Speak using skills appropriate to formal speech situations. **During the telephone sale, job interview and media presentation the students must be able to vary their sentence structure to add interest to a presentation, pace the presentation according to the audience and purpose and adjust stress, volume and inflection to provide emphasis to ideas or to influence the audience.**

Floriculture

Academic Content Area: Science and Technology – Grade 10

Career Development Event Content

1. Identify floriculture and bedding plant materials.
2. Understand the biological and scientific principles and develop the skills underlying propagation, growth requirements, growing techniques, harvesting, marketing and maintenance of established floriculture plants.
3. Identify and select appropriate supplies and equipment for the flower shop and greenhouse.
4. Operate and maintain appropriate equipment for floriculture operations.
5. Understand and demonstrate proper sales and service.
6. Maintain records and proper reports that are accurate and legible.

Related Academic Standards/Anchors

Objectives 1-6: **3.1.10.A,D,E; 3.2.10.B,C,D; 3.6.10.A; 3.7.10.A,B**

Connecting Examples: CDE Objectives and Standards/Anchors

Ex. 1 – Related to 3.1.10.A: Discriminate among the concepts of systems, subsystems, feedback and control in solving technological problems. Sub-point, analyze and describe the effectiveness of systems to solve specific problems. **Students must complete at least three practicums that would require them to solve specific problems within a particular system. For example, students were given a situation where an individual was having problems growing orchids in a greenhouse. The students were to determine the problem within the greenhouse system according to the present environment and desired environment, which required the students to draw a conclusion of continued watering schedule and decreased amount of CO₂ in the atmosphere.**

Ex. 2 – Related to 3.7.10.A: Identify and safely use a variety of tools, basic machines, materials and techniques to solve problems and answer questions. Sub-point, select and safely apply appropriate tools, materials and processes necessary to solve complex problems. **Students are required to have background knowledge of greenhouse and flower shop equipment and machines for identification and selection for appropriate usage within the industry.**