

Instructional Scenario

Greenhouse Cleaning



Course/Duty Area: Horticulture Sciences: Gaining an Overview of the Horticulture Industry

Scenario:

The winter plant sale has just wrapped up, and the school greenhouse is empty after selling poinsettias, Christmas cacti, and amaryllis bulbs. The students in the Horticulture Sciences class must now prepare the greenhouse for the upcoming spring season by growing annuals and perennials. The greenhouse has 12 greenhouse benches made of polypropylene, one wooden shelving unit for supplies, a large potting bench, and a metal display bench and hanging rack. The floor of the greenhouse is concrete with two long floor drains and two small round drains. There are also two stainless steel sinks. The students must clean and sanitize all parts of the greenhouse before starting seeds for the spring season.

Big Question:

How should the Horticulture Sciences students clean and sanitize the greenhouse?

Focused Questions:

- Why is it important to clean and sanitize the greenhouse prior to starting new plants?
- What types of personal protective equipment (PPE) should be used while cleaning the greenhouse?
- What types of cleaning supplies should be used to clean each part of the greenhouse?

Student Project or Outcome:

Choose One:

1. Create an infographic using Canva describing the necessary steps to clean and sanitize the greenhouse. Include the following:
 - a. Necessary PPE
 - b. Cleaning supplies for each part of or item in the greenhouse
 - c. Safety steps used while cleaning and sanitizing the greenhouse
 - d. One or more pictures for each of parts a – c.
 - e. Professional, colorful, eye-catching infographic to be displayed in the school greenhouse
2. Make a video demonstrating the steps needed to clean and sanitize the greenhouse. Include the following:
 - a. Necessary PPE
 - b. Cleaning supplies for each part of or item in the greenhouse

- c. Safety steps used while cleaning and sanitizing the greenhouse
- d. Two minutes or more video
- e. Appropriate, accurate, and entertaining video that holds viewer interest.

Teacher Resources:

- Gauthier, N., Kight, J., Owen, W. G., Anderson, S. (2020). *Cleaning & Sanitizing Commercial Greenhouse Surfaces*. College of Agriculture, Food & Environment. University of Kentucky.
- Smith, Tina. (2015). *Cleaning and Disinfecting the Greenhouse*. Center for Agriculture, Food, and the Environment. University of Massachusetts Amherst.

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