

Spanish Fork High School 2014-2015

Learning Objectives for

Landscape & Greenhouse Management

I CAN explain the role of FFA in agricultural education.

- I CAN discuss the history and organization of FFA as it relates to the complete program of agricultural education.
- I CAN identify opportunities in FFA.
- I CAN describe FFA degrees, awards, and career development events (CDEs).

I CAN explain the role of supervised agricultural experience (SAE) programs in agricultural education.

- I CAN examine the responsibilities and benefits associated with an SAE.
- I CAN determine the types of SAE programs.
- I CAN plan an SAE program.
- I CAN maintain and use SAE records.

I CAN demonstrate an understanding of landscape design components.

- I CAN identify and categorize landscape plants.
- I CAN Compile information in preparation for landscape design work.
- I CAN Create a functional and aesthetically pleasing landscape plan.
- I CAN Explain landscape design business concepts.

I CAN demonstrate landscape plant installation and maintenance practices.

- I CAN Install a landscape area based on a landscape design.
- I CAN Explain turfgrass installation and maintenance methods.
- I CAN Identify methods of turfgrass establishment and the advantages and disadvantages of each method.
- I CAN Describe proper tree and shrub maintenance practices and procedures.
- I CAN Examine the physical and chemical properties of growing media in landscape applications.

I CAN describe integrated pest management.

- I CAN Describe the principles of integrated pest management.
- I CAN Identify plant pests and diseases and their causes.
- I CAN Explain procedures for the safe handling, use, and storage of pesticides.

I CAN demonstrate the installation and maintenance of irrigation systems.

- I CAN Prepare for installation of a sprinkler system.
- I CAN Plan and install a sprinkler system.

I CAN Plan and illustrate a distribution system.

- I CAN Select components for the irrigation system.
- I CAN Maintain a sprinkler system.

I CAN demonstrate landscape equipment maintenance and operation.

- I CAN Demonstrate the use of equipment in landscape maintenance.
- I CAN Properly maintain equipment used in landscape maintenance.

I CAN demonstrate greenhouse crop production techniques

- I can select appropriate containers for floriculture and bedding plants
- I can select appropriate growing media
- I can demonstrate appropriate watering techniques
- I can prepare a floriculture and greenhouse crop for sale
- I can plan a growing schedule for common crops
- I can properly pinch and disbud greenhouse crops

I CAN explain floriculture and greenhouse business concepts.

- I can price floral design work and greenhouse crops using costs and mark-up
- I can demonstrate appropriate customer service techniques
- I can create a marketing option for a floral design business
- I can prepare a crop for sale
- I can calculate greenhouse markups
- I can recognize costs related to production
- I can create a marketing plan for greenhouse crops
- I can describe career opportunities in the greenhouse & floriculture industry.

I CAN describe greenhouse structures, automated systems, & climate control

- I can identify different greenhouse designs
- I can explain greenhouse construction (head house, glazing, benches)
- I can explain different climate controls
- I can explain different systems within the greenhouse(watering, heating, cooling, lighting)

I CAN examine the components & properties of growing media & nutrients

- I can identify and describe the purpose of the components of growing media
- I can test and modify pH and explain how it effects growth
- I can determine and supply nutrients based on need

I CAN explain the effects of light, temperature, air, & water on plant growth.

- I can explain the effects of light on plant growth
- I can explain the effects of water on plant growth
- I can explain the effects of temperature on plant growth
- I can explain the function of plant growth regulators