

ACHIEVEMENT LEVEL DESCRIPTORS

FOR THE HORTICULTURE MODULE

Please note: Students performing at the Meets Expectations level also meet all standards at the Approaches Expectations level.

APPROACHES EXPECTATIONS

Students performing at the Approaches Expectations level can identify the major components of growing media, the categories of soil water, the crops grown in greenhouses, the factors that are involved with the climate of a greenhouse (heating, cooling, humidity, and light), and the importance of each factor on plant production. They can describe how the growing media supports plant growth, the types of glazing materials, and factors to consider when selecting a glazing material. They are able to identify the types of irrigation systems used in greenhouse production as well as major plant diseases and pests in a greenhouse production. They can also identify growth promotants and regulators and describe their uses in production. These students can describe plant nutrition, the importance of nutrient management in a greenhouse setting, and the safety procedures for greenhouse production. They are able to discuss the importance of plant propagation, explain the difference between sexual and asexual propagation methods, and list the purposes of greenhouse production.

Finally, students approaching expectations are able to identify and properly use the traditional tools of a landscape designer. They also can identify common types of landscape irrigation systems and their components as well as describe the steps for proper landscaping, including pruning, moving, aerating, and fertilization. These students are able to define xeriscaping and explain its benefits.

MEETS EXPECTATIONS

Students performing at the Meets Expectations level can describe the physical characteristics of growing media, the purpose and use of common environmental controls, fertilization practices, methods of control for major plant diseases and pests in a greenhouse production, and the impact of growth promotants and regulators on the plant system. They can explain the influence promotants and regulators have on plant growth and discuss how soil drainage and water-holding capacity can be improved. These students are able to identify types of greenhouse structures and framework and compare and contrast their uses. They can also compare and contrast glazing materials and irrigation systems. They are able to identify micro and macronutrients and common operations in a greenhouse (pot filling, transplanting, watering, inventory). Students can demonstrate how to successfully plant seeds, use stem cutting propagation, and use grafting propagation.

Finally, students who meet expectations are able to describe the seven principles of xeriscaping and explain how to maintain lawn equipment to ensure the proper health of the turf. They can measure and

interpret dimensions to scale, demonstrate how to set an irrigation timer, and set irrigation zones to turn on at the proper time.