

INQUIRY

Scientific Inquiry**Process Skills**

___ Conduct experiments and use available materials and technology to report and display results. *Hort-01*

Technological Design

___ Propose and compare different solution designs to the design problem based upon given constraints including available tools, materials and time. *Hort-02*

___ Develop working visualizations of the proposed solution designs (e.g. blueprints, schematics, flowcharts and animations). *Hort-03*

CONTENT

Life Science**Plant Identification and Plant Morphology**

___ Compare and contrast various categories of plants based on the structure and function of leaves, flowers, stems and roots. *Hort-04*

Soil Science

___ Describe differences between clay, sandy and loamy soils including nutrients in each, rates of soil erosion and plants that grow in each type. *Hort-05*

Plant Care

___ Distinguish the roles of environmental factors in plant growth and development and how they may be managed for better plant performance. *Hort-06*

Integrated Pest Management

___ Explain the proper use and application of pesticides and herbicides in enhancing plant growth, including safety issues with each. *Hort-07*

Shrub and Tree Care

___ Describe the overall care of narrowleaf evergreens, broadleaf evergreens, deciduous trees and deciduous shrubs. *Hort-08*

Plant Propagation

___ Compare and contrast the sexual and asexual propagation methods of plants and factors and conditions that affect each. *Hort-09*

Flower Arranging

___ Design and construct a flower arrangement using the basic principles of floral design. *Hort-10*

Home Landscaping

___ Design a landscape plan using basic principles of landscape design and estimate the costs for both the landscaping products and design implementation. *Hort-11*

Lawn and Turf Management

___ Explain how to establish and maintain a lawn. *Hort-12*

Bedding and Plant Production

___ Describe how to set up and design a bedding plant area. *Hort-13*

CONNECTIONS

Science Practices

___ Describe how scientific knowledge and technology change over time and relate to consumer choices. *Hort-14*

S/T/S (Science, Technology and Society)

___ Describe horticulture-related industries and the various jobs within them, including working conditions and educational requirements. *Hort-15*

___ Describe technological advancements in the area of horticulture. *Hort-16*