

# CT.LAN Landscaping

## Essential Discipline Goals

-Develop and apply the technical competency and related academic skills that allow for economic independence and career satisfaction.

-Acquire the essential learnings and values that foster continued education throughout life.

-Demonstrate the ability to communicate, solve problems, work individually and in teams, and apply information effectively.

-Develop technological literacy and the ability to adapt to future change.

### Standards

### Indicators

**CT.LAN.05** Determine the safety procedures to use in landscaping.

**CT.LAN.05.01** Demonstrate safe lab and worksite habits

**CT.LAN.05.02** Demonstrate safe operation of equipment

**CT.LAN.10** Given a taxonomy key, the students will explore the diversity of the Plant Kingdom.

**CT.LAN.10.01** Identify 10 trees used in the landscape

**CT.LAN.10.02** Describe the seasonal changes in trees and changes in the environmental factors

**CT.LAN.10.03** Identify the major plant parts

**CT.LAN.10.04** Compare and contrast trees used in the landscape

**CT.LAN.10.05** Identify 10 shrubs used in the landscape

**CT.LAN.10.06** Describe the seasonal change in shrubs and change in the environmental factors

**CT.LAN.10.07** Identify the major plant parts

**CT.LAN.10.08** Compare and contrast shrubs used in the landscape

**CT.LAN.10.09** Identify 5 annuals used in the landscape

**CT.LAN.10.10** Describe the seasonal characteristics of annuals

**CT.LAN.10.11** Identify the major plant parts

**CT.LAN.10.12** Compare and contrast annuals used in the landscape

**CT.LAN.15** Demonstrate competency in maintaining the landscape.

**CT.LAN.15.01** Identify and use 5 landscape tools

**CT.LAN.15.02** Cultivate plants

**CT.LAN.15.03** Water plants

**CT.LAN.15.04** Edge beds

**CT.LAN.15.05** Apply mulch

**CT.LAN.20** Demonstrate proficiency in utilizing, handling, manipulating, and caring for testing apparatus.

**CT.LAN.20.01** Demonstrate proficiency in the use of instruments for measuring air, water, and soil quality, temperature, and sound

**CT.LAN.25** Demonstrate the installation of landscapes.

**CT.LAN.25.01** Transplant tree and shrubs

**CT.LAN.25.02** Use a tree caliper

**CT.LAN.25.03** Plant bare root nursery stock

**CT.LAN.25.04** Plant trees (Identify, space and depth)

**CT.LAN.25.05** Plant shrubs (Identify, space and depth)

**CT.LAN.30** Demonstrate the installation of landscapes.

**CT.LAN.30.01** Plant ground covers (Identify, space and depth)

- CT.LAN.30.02 Plant bulbs (Identify, space and depth)
- CT.LAN.30.03 Plant annuals (Identify, space and depth)
- CT.LAN.30.04 Install lawns—seed or sod (Identify, space and depth)

**CT.LAN.35** Demonstrate the interrelationship of organisms and their interaction with the environment.  
CT.LAN.35.01 Propagate plants: Plant seeds, Transplant seedlings, Label plants, Cuttings - leaf, stem, root, Division and separation

**CT.LAN.40** Demonstrate the interrelationship of materials to create a holiday design.

- CT.LAN.40.01 Use Hillman wreath machine
- CT.LAN.40.02 Wrap a wire wreath frame
- CT.LAN.40.03 Design an evergreen wreath
- CT.LAN.40.04 Design a bow

**CT.LAN.45** Demonstrate competency in floral design.

- CT.LAN.45.01 Wire flowers
- CT.LAN.45.02 Tint floral products
- CT.LAN.45.03 Design bud vases
- CT.LAN.45.04 Design dish gardens
- CT.LAN.45.05 Design terrains
- CT.LAN.45.06 Design a floral arrangement
- CT.LAN.45.06 Design a corsage
- CT.LAN.45.07 Design a bow

**CT.LAN.50** Demonstrate an understanding of soil as a natural resource.

- CT.LAN.50.01 List nature and properties of soil
- CT.LAN.50.02 Identify soil management techniques
- CT.LAN.50.03 Use/identify fertilizers
- CT.LAN.50.04 Analyze soils
- CT.LAN.50.05 Use artificial plant media
- CT.LAN.50.06 Identify causes of soil erosion
- CT.LAN.50.07 Discuss control of non-agricultural soil erosion
- CT.LAN.50.08 Read and interpret a soil survey map
- CT.LAN.50.09 Judge a soil profile practice pit
- CT.LAN.50.10 Describe traditional and new techniques of soil conservation

**CT.LAN.55** Demonstrate an understanding of the need for conservation and appropriate management of natural resources.

- CT.LAN.55.01 Discuss various energy sources and their uses
- CT.LAN.55.02 Contrast various methods of energy exploration, and how production impacts upon reserves
- CT.LAN.55.03 Describe the process of mineral recovery and the environmental effects which result from these activities
- CT.LAN.55.04 Identify methods of conserving and recycling mineral resources
- CT.LAN.55.05 Explain the relationship between species diversity and environmental quality
- CT.LAN.55.06 Explore various ways to manage solid waste

**CT.LAN.60** Exhibit an awareness of noise as a pollutant.

- CT.LAN.60.01 Identify sources of noise pollution and discuss their effects upon biota
- CT.LAN.60.02 Discuss methods of reducing and controlling noise pollution
- CT.LAN.60.03 Distinguish between primary and secondary succession and give examples
- CT.LAN.60.04 Understand how changes occur through natural selection

**CT.LAN.65** Exhibit an awareness of the demands on water resources and the impact on water quality.

- CT.LAN.65.01 Illustrate how sediments, nutrients, and eutrophication can affect an aquatic ecosystem

**CT.LAN.65.02** Describe methods of water treatment and purification

**CT.LAN.65.03** Distinguish between point and non-point sources of water pollution

**CT.LAN.65.04** List the major sources of toxic chemical waste and their potential environmental effects

**CT.LAN.70** Explore careers in landscaping/horticulture.

**.01** Read or research: Job opportunities, Advanced schools and colleges, FFA professional development programs

**CT.LAN.75** Demonstrate competency as an applicant for a job.

**CT.LAN.75.01** Write a resume

**CT.LAN.75.02** Participate in a job interview

**CT.LAN.75.03** FFA professional development

**CT.LAN.80** Demonstrate effective customer relations skills.

**CT.LAN.80.01** Practice interpersonal skills and relations in class/lab

**CT.LAN.80.02** Demonstrate proper phone techniques

**CT.LAN.80.03** Practice customer relations in the greenhouse/lab