Unit 7: Landscape Architecture

Content Area: **Applied Technology**
Course(s):
Time Period: **Marking Period 2**
Length: **2 weeks**
Status: **Published**

Summary

Students will explore elements of landscape architecture, including slope, grade, drainage, and site planning. Landscape architecture is a licensed profession that directly relates to the management and conservation of natural materials,

Revision Date: July 2024

Essential Questions/Enduring Understandings

Essential Questions:

What is landscape architecture?

What tools and strategies are used in site planning?

What are the environmental impacts such as climate change on site planning and landscape architecture?

Enduring Understandings:

Placement of elements on a site can create drama, emphasize building elements and define exterior spaces as well as enhance the quality of a design.

The State and municipalities have code requirements regarding rainwater on a site.

Landscape architects are licensed professionals because their work impacts the environment and concerns public safety.

Objectives

Students will know:

key vocabulary including but not limited to grade, contour line, cut and ill, positive drainage, foundation planting, deciduous, evergreen, improvements, impervious, asphalt, concrete, paver, decking, elevation, and swale.

improvements on a property affect the environment.

different strategies are used to control water on a site.

rainwater management is an environmental concern of the State.

landscape elements can be used to emphasize architectural elements and define exterior spaces.

Students will be skilled at:

locating a house, driveway, pool, and other site improvements to make better outdoor environments.

locating site improvements to address environmental concerns.

Learning Plan

Preview the essential questions and connect to learning throughout the unit.

Teacher will provide formative and summative assessments of skills attainment.

Lecture and class discussion introducing vocabulary, and available resources (in-class and INTERNET based)

Demonstration of CAD commands and use: contour lines, plants, scale

Demonstration of how to make a section drawing of a property to study the topography

Suggested activity: create a site plan for a house, pool, and out-building. Provide students with a topographic map of the site that includes contour lines. Students will include elements that include sidewalks, walks, driveways, curb-cuts, deck and patio areas, and programmed spaces. The project may run concurrently with other units.

Teacher will provide formative and summative assessments of skills attainment.

Reference book: Architectural Graphic Standards Student Edition (Ramsey/Sleeper)

Assessment

Formative assessment:
demonstrate knowledge and understanding of vocabulary through correct usage.
participation in class discussion on landscape architecture
exit tickets
sketchbook

Summative assessment:
complete writing prompt: "Propose how site planning benefits the environment?
answer the essential questions.
demonstrate knowledge and understanding of vocabulary through correct usage.
create a site plan that effectively addresses a complex program and site. The project will be assessed using rubrics.
complete writing prompt: Example. A site plan has many diverse elements and concerns that include… An effective site plan will….

Benchmark Assessment:
Final exam.

Alternate Assessment:
Presentation and research on the effects of landscape effects the environment and how the environment affects the landscape

Materials

AutoCAD/Computer lab

Smartboard

Internet resources

Graph paper

Reference text: Architectural graphic standards Ramsey/Sleeper

core book list

Integegrated Accommodation and Modifications...

Integrated Accommodation and Modifications, Special Education students, English Language Learners, At-Risk students, Gifted and Talented students, Career Education and those with 504s