

ENVIROTHON
LEARNING OBJECTIVES/
TESTING AREAS

Forestry

- A. Identify common trees without a key and identify specific or unusual species of trees or shrubs through the use of a key

- B. Understand forest ecology concepts and factors affecting them, including the relationship between soil and forest types, tree communities, regeneration, competition, and succession

- C. Understand the cause/effect relationship of factors affecting tree growth and forest development (climate, insects, microorganisms, etc.)

- D. Understand how wildlife habitat relates to forest communities, forest species, forest age structure, snags and den trees, availability of food, and riparian zones

- E. Understand the value of trees in urban and suburban settings and factors affecting their health and survival

TEKS Courses

Environmental Systems 4(A);
Forestry & Wood Technology 2(C);

Biology 5(C), 7(B), 12(A)(B)(C)(D)(E);
Environmental Systems 6(A)(B)(C)(D);
Energy and Environmental Technology 3(A)(B); Plant and Soil Science 2(A);

Integrated Physics and Chemistry 9(C);
Biology 9(B)(D), 11(D), 13(A)(B);
Environmental Systems 4(B), 8(A);
Chemistry 14(D); Geology, Meteorology,
and Oceanography 12(B)(C); Forestry and
Wood Technology 2(B); Environmental
Technology 2(A)(B)(C)(D); Plant and Soil
Science 2(B), 3(A)(B)(C)(D); Applied
Entomology 3(A)(B)(C)(D)

Wildlife and Recreation Management
2(A)(B)(C), 3(A)(B)(C), 4(A)(B)(C)(D)(E);
Agricultural Resources 3(D)

Energy and Environmental Technology
5(B); Introduction of Horticultural Science
2(A)(B)(C)(D)(E)(F)(G); Landscape design,
Construction, and Maintenance
2(A)(B)(C)(D)

**ENVIROTHON
LEARNING OBJECTIVES/
TESTING AREAS**

- | | |
|---|--|
| <p>F. Understand how the following issues are affected by forest health and management: biological diversity, forest fragmentation, air quality, fire, and recreation</p> | <p>Environmental Systems 4(C)(D)(E), 5(E)(F); Environmental Technology 9(C); Energy and Environmental Technology 7(C); Environmental Technology 4(A)(B)(C)(D), 5(A)(B)(C)(D)(E); Agricultural Resources 3(C)</p> |
| <p>G. Understand basic forest management concepts and tools such as: how various silvicultural practices are utilized, the use of tree measuring devices, and best management practices</p> | <p>Environmental Systems 5(A)(C)(D), 8(B); Plant and Animal Production 3(A)(B)(C)(D)(E)(F); Forestry and Wood Technology 3(A)(B)(C)(D), 5(B)(C)(D)(E); Applied Entomology 4(A)(B)(C)</p> |
| <p>H. Identify complex factors which influences forest management decisions (economics, social, and ecological)</p> | <p>Environmental Systems 7(A)(B)(C)(D); Geology, Meteorology, and Oceanography 9(B); Introduction to World Agricultural Science and Technology 5(A)(B)(C)(D)(E)(F); Energy and Environmental Technology 3(C), 4(A)(B)(C); Plant and Animal Production 3(A)(B)(C)(D)(E)(F); Forestry and Wood Technology 2(A), 4(A)(B)(C), 5(A), 6(A)(B); Environmental Technology 3(A)(B)(C); Plant and Soil Science 4(A)(B)(C)(D)(E); Advanced Plant and Soil Science 2(A)(B)(C)(D), 3(A)(B)(C)(D); Applied Entomology 2(A)(B)(C)</p> |
| <p>I. Apply silviculture concepts and methods to develop general management recommendations for a particular situation and management goals</p> | <p>Environmental Systems 8(C)(D); Aquatic Science 8(B)(C); Applied Agricultural Science and Technology 3(A)(B)(C)(D); Agribusiness Management and Marketing 1(A)(B)(C)(D)(E), 2(A)(B)(C), 3(A)(B)(C), 4(A)(B)(C)(D)(E), 5(A)(B)(C)(D)(E); Advanced Agribusiness Management and Marketing 1(A)(B)(C)(D)(E), 2(A)(B), 3(A)(B)(C)(D), 4(A)(B)(C); Advanced Plant and Soil Science 4(A)(B); Agricultural Biotechnology 2(A)(B), 3(A)</p> |