

Forestry Key Point 3 Correlation to National Science Standards

Key National Science Standard (NSS)

UC	Unifying Concepts
I	Inquiry
P	Physical Science
L	Life Science
E	Earth & Space Science
ST	Science & Technology
SP	Personal & Social Perspective
H	History & Nature of Science

Learning Objectives:	Key Point 3: Sustainable Forestry Management	Activity	NSS	Topic
1.	Understand the term silviculture, and be able to explain the uses of the following silviculture techniques: thinning, prescribed burning, single tree and group tree selection, shelterwood method, clear-cutting with and without seed trees, and coppice management.	Field study	I, P, L, UC, SP	Natural Resources, Interdependence of organisms, Behavior of organisms
2.	Explain the following silviculture systems: clear-cutting, seed tree method, even-aged management, uneven-aged management, shelterwood and selection.	Field study	I, L, UC, SP	Natural Resources, Matter, Energy, and Organization in Living Systems
3.	Understand the methodology and uses of the following silviculture treatments: Planting, weeding, pre-commercial thinning (PCT), commercial thinning and harvesting.	Field study	I, L, UC, SP	Environmental quality, Science and Technology
4.	Know how to use forestry tools and equipment in order to measure tree diameter, height and basal area.	Field study using tools	I, SP	Science as a Human Endeavor
5.	Understand how the following issues are affected by forest health and management: biodiversity, forest fragmentation, forest health, air	Project Learning Tree Activity	I, E, L, UC, SP	Natural Resources, Environmental quality

	quality, aesthetics, fire, global warming and recreation.			
6.	Understand how forestry management practices and policy affect sustainability.	Research	I, UC, SP	Natural Resources, Environmental quality
7.	Understand how economic, social and ecological factors influence forest management decisions.	Compare and Contrast	I, UC, SP	Humans modify ecosystems, Natural Resources
8.	Learn how science and technology are being utilized in all aspects of forest management.	Study	I, SP	Nature of Scientific Knowledge, Science and Technology in local, national and global challenges