

KEY FOREST LITERACY PLAN CONCEPTS FOR GRADES 9-12



The following concepts from the Forest Literacy Framework have direct connections to Next Generation Science Standards (NGSS) in the United States, to provincial science standards in Canada and to Social Studies standards in both countries. Note that many concepts also support English Language Arts, and Mathematics standards as well.

Forest Literacy Framework Concept	Subject	Topic	Core Idea	Standard (If Applicable)
Theme 1, C.4	Science	Ecosystem Dynamics, Function, and Resilience	A complex set of interactions can keep ecosystems relatively stable over long periods of time. Extreme fluctuations in conditions can challenge the functioning of ecosystems.	NGSS: <u>HS-LS2-6</u>
Theme 2, A,3	Science	Cycles of Matter and Energy Transfer in Ecosystems	Photosynthesis and cellular respiration are important components of the carbon cycle, in which carbon is exchanged among the biosphere, atmosphere, oceans, and geosphere through chemical, physical, geological, and biological processes.	NGSS: <u>HS-ESS2-6</u>
Theme 3, C.5	Social Studies	Civics: Civic and Political Institutions	Institutions help to address social and political problems at the local, state, tribal, national, and international levels.	See local standards
Theme 3, B.5	Science	Human Impacts on Earth Systems	We must responsibly manage our natural resources in order to ensure the sustainability of human societies and the biodiversity that supports them.	NGSS: <u>HS-ESS3-3</u>

Forest Literacy Framework Concept	Subject	Topic	Core Idea	Standard (If Applicable)
Theme 3, E.6	Social Studies	Economics: Exchange and Markets	Incentives can influence what is produced and distributed in a market system.	See local standards
Theme 4, B.1	Science	Designing Solutions to Engineering Problems	When evaluating solutions, it is important to take into account a range of constraints, including cost, safety, reliability, and aesthetics, and to consider social, cultural, and environmental impacts.	NGSS: <u>HS-ESS3-R</u>
Theme 4, B.2	Science	Ecosystem Dynamics, Functioning and Resilience	Anthropogenic changes in the environment can disrupt an ecosystem and threaten the survival of some species.	NGSS: <u>HS-LS27</u>