

Trees in the Forest Module

Colorado Standards

Grade	Subject	Expectation	Module Activity
4 th	Social Studies/ Geography	<u>Connections within and across human and physical systems are developed</u>	Activity 3 – Tree Density
4 th	Physical Life Science	<u>Energy comes in many forms such as light, heat, sound, magnetic, chemical, & electrical</u>	Activity 2 - ‘Lights Out’ Photosynthesis
4 th	Physical Life Science	<u>All living things share similar characteristics, but they also have differences that can be described and classified</u>	Activity 1 – Part of a Tree, Functions of Tree Parts, & the Tree Factory
4 th	Life Science	<u>There is interaction and interdependence between and among living and nonliving components of systems</u>	Activity 3 – Tree Density
5 th	Life Science	<u>All organisms have structures and systems with separate functions</u>	Activity 1 – Part of a Tree, Functions of Tree Parts, & the Tree Factory
5 th	Life Science Earth Systems	<u>Earth and sun provide a diversity of renewable and nonrenewable resources</u>	Activity 2 – ‘Lights Out’ Photosynthesis
5 th	Life Science Earth Systems	<u>Earth’s surface changes constantly through a variety of processes and forces</u>	Activity 3 – Tree Density

STEM Connections

Science – Students will learn about the functions of a tree and how forests thrive, including how disturbances such as wildfires affect the health of forests.

Technology – Students will use web-based interactive activities, such as the Arbor Day website’s Life of a Tree activity, to learn about trees.

Engineering – As students learn the parts and functions of a tree, they will make connections between how the different parts work together to create a cohesive, working system.

Math – As students learn about the health of forests, they will understand how density affects the availability and distribution of finite resources.

Relevance & Application

1. Humans can have positive and negative impacts on an ecosystem.
2. Nonliving components are cycled and recycled through ecosystems and need to be protected and conserved.