



Grade 4 Science

Kindergarten to Grade 4 Science: A Foundation for Implementation 1999

Student Learning Outcomes Related to Sustainable Development

Cluster 1: Habitats and Communities

4-1-13 Predict, based on their investigations, how the removal of a plant or animal population may affect the rest of the community.

Examples: if the wolves were removed from a community, the deer population may increase rapidly...

4-1-14 Investigate natural and human-caused changes to habitats, and identify resulting effects on plant and animal populations. Include: endangerment, extinction.

4-1-15 Describe how their actions can help conserve plant and animal populations and their habitats.

Examples: clean up a local stream to improve fish and bird habitat...

4-1-17 Recognize and appreciate how traditional knowledge contributes to our understanding of plant and animal populations and interactions.

Cluster 3: Sound

4-3-12 Describe harmful effects of high or sustained sound levels and identify potential sound hazards at home or in the community.

Examples: leaf blowing machines, snowblower, stereo, drone of machinery...

Cluster 4: Rocks, Minerals, and Erosion

4-4-12 Investigate and describe ways in which soil erosion is controlled or minimized in their community and in communities around the world.

Examples: windbreaks, retaining walls, terracing, cover crops, reforestation...

4-4-13 Use the design process to determine an appropriate system for controlling soil erosion in a given situation.

4-4-15 Identify natural phenomena and human activities that cause significant changes in the landscape.

Examples: floods, avalanches, mud slides, hydroelectric dams, clearing land for agriculture, clear-cut forestry, forest fires...