



Grade 3 Science

Kindergarten to Grade 4 Science: A Foundation for Implementation 1999

Student Learning Outcomes Related to Sustainable Development

Cluster 1: Growth and Changes in Plants

3-1-03 Show respect for plants as living things.

3-1-09 Identify plant adaptations that can be harmful to human, and describe their effects.

3-1-16 Identify how humans from various cultures use plant parts for food and medicine.
Examples: use of roots for food (carrots) and medicine (ginseng) ...

3-1-17 Investigate to determine how humans from various cultures make useful products from plant materials.
Examples: lumber milling, paper making, rope making, fabric making ...

3-1-18 Explain how humans replenish the plants they use and the consequences if plants are not replenished.
Examples: after loggers harvest trees, new ones should be planted to ensure a future lumber supply...

Cluster 3: Forces That Attract or Repel

3-3-19 Use the design process to construct a game, toy, or useful device that uses gravitational, magnetic, or electrostatic forces.

Cluster 4: Soils in the Environment

3-4-08 Explain the importance of understanding the characteristics of different soils.
Examples: enables farmers to determine which crops can be grown in a particular area, enables gardeners to improve plant growth, enables engineers to know what types of foundations to set for structures...

Sci 3-4-10 Describe ways to return organic matter to the soil.
Examples: composting, spreading manure on fields...

3-4-11 Use the design process to construct a simple composter that returns organic matter to the soil.
Examples: classroom composter for left-over food, school composter for grass clippings and leaves...