



Rocks to Soil: How Geology Builds a Farm

MA Curriculum Framework Standards

Grades K – 5

K

ESS2. Earth's Systems

K-ESS2-2. Construct an argument supported by evidence for how plants and animals (including humans) can change the environment.

GR. 1

ESS1. Earth's Place in the Universe

1-ESS1-2. Analyze provided data to identify relationships among seasonal patterns of change, including relative sunrise and sunset time changes, seasonal temperature and rainfall or snowfall patterns, and seasonal changes to the environment.

GR. 2 ESS2. Earth's Systems

2-ESS2-1. Investigate and compare the effectiveness of multiple solutions designed to slow or prevent wind or water from changing the shape of the land.

GR. 3

GR. 4

ESS1. Earth's Place in the Universe

4-ESS1-1. Use evidence from a given landscape that includes simple landforms and rock layers to support a claim about the role of erosion or deposition in the formation of the landscape over long periods of time.

ESS2. Earth's Systems

4-ESS2-1. Make observations and collect data to provide evidence that rocks, soils, and

sediments are broken into smaller pieces through mechanical weathering and moved around through erosion.

GR. 5

LS2. Ecosystems: Interactions, Energy, and Dynamics

5-LS2-1. Develop a model to describe the movement of matter among producers, consumers, decomposers, and the air, water, and soil in the environment to (a) show that plants produce sugars and plant materials, (b) show that animals can eat plants and/or other animals for food, and (c) show that some organisms, including fungi and bacteria, break down dead organisms and recycle some materials back to the air and soil.

5-LS2-2(MA). Compare at least two designs for a composter to determine which is most likely to encourage decomposition of materials.

PREK – Gr. 5

Comprehensive Health Frameworks

Nutrition / 3.1 Improving Nutrition: Identify the key nutrients in food that support healthy body systems (skeletal, circulatory) and recognize that the amount of food needed changes as the body grows. Ecological Health / 13.1 Interdependence: Describe types of natural resources and their connection with health.

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