



Greater Des Moines Botanical Garden

Exploring, explaining and celebrating the world of plants

Addressed Learning Standards

The Scoop on Soil

Sand, silt, clay and worms, Oh My! Soil is everywhere and is more than the ground under your feet. In this lesson, students will investigate soil's various parts, discover that not all soil is the same, and learn why soil is important to people. This lesson promises that students will get their hands dirty as they dig deep into the world of soil.

Grade Level:

K – 4th

Location:

Gardner's Show House

Subjects:

Life Science
Earth Systems
Biological Evolution
Organisms
Ecosystems

Next Generation Science Standards:

K-ESS3-3

Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.

1-LS-1

Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.

2-LS2-1

Plan and conduct an investigation to determine if plants need sunlight and water to grow.

3-LS4-4

Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.

4-ESS2-1

Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation.

Iowa Core:

Geography

SS.K-5.G.3

Understand how human factors and the distribution of resources affect the development of communities and the movement of populations.

SS.K-5.G.4

Understand how geographic processes and human actions modify the environment and how the environment affects humans.