

Unifying Theme: Plants & Soil

Essential Standard and Clarifying Objectives

3.L.2 Understand how plants survive in their environments.

3.L.2.1 Remember the function of the following plant structures as it relates to the survival of plants in their environment:

- Roots –absorb nutrients
- Stems –provide support
- Leaves – synthesize food
- Flowers – attract pollinators and produce seed for reproduction

3.L.2.2 Explain how environmental conditions determine how well plants survive and grow.

3.L.2.3 Summarize the distinct stages of the life cycle of seed plants.

3.L.2.4 Explain how the basic properties (texture and capacity to hold water) and components (sand, clay and humus) of soil determine the ability of soil to support growth and survival of many plants.

Unpacking

What does this clarifying objective mean a child will know, understand and be able to do?

3.L.2.1 Students know the names and functions of major plant parts (roots, leaves, stems, flowers). Students know that plants have special parts that perform special functions in order for the plant to survive.

3.L.2.2 Students know that how well plants grow and survive is determined by a combination of environmental conditions. For example, drought conditions will tend to diminish plant health and growth.

3.L.2.3 Students know the distinct staged of the life cycle of seed plants (seed, germination, seedling, adult).

3.L.2.4 Students know that different soils possess different textures and capacities for the retention of water and nutrients. Students know that soil consists of different components. Students know that these characteristics of soil influence the growth and survival of plants.