



## Lesson 9: Soil Science and Composting Lesson Plan

Estimated lesson time: 120 minutes

Learning objectives:

- Understand the basics of soil formation
- List the main ways in which soils can be degraded
- Describe some of the ways in which soil degradation can be averted or minimized
- Understand the basic function and science of composting
- Describe the ways in which compost can benefit agricultural soils

Key concepts:

- Soil
- Compost
- Soil degradation
- Soil components
- Soil Resilience

Lesson components:

- I. Background (for instructors) – 5-10 minutes
- II. Icebreaker activities – 15 minutes
- III. Introduction to Soil (lecture and activity) – 30 minutes
- IV. Introduction to Compost (lecture) – 20 minutes
- V. Problem-based Learning Activity -30 minutes
- VI. Debriefing – 15 minutes

