



Lesson 10: Pest Diseases and Prevention

Lesson Plan

Estimated lesson time: 90 minutes

Learning objectives:

- Identify, define, and describe the three factors involved plant disease
- List types of microbes, parasitic plants, and insects that impact plant health
- Provide an example of the value of systems approaches for plant health
- Identify how plant health impacts human health and environmental health
- Describe how individual decisions impact plant health

Key concepts:

- Systems approaches
- Role of microbes, parasitic plants, and insects in plant health
- Integrated pest management

Lesson components:

- I. Background for instructors (15 min)
- II. Introduction to insect and microbe interactions with plants (lecture and activity – 60 minutes)
 - A. Insects and Diseases on Plants: Observing interactions in the garden (activity – 20 minutes)
 - B. The Disease Triangle (activity – 20 minutes)
 - C. Insect Control Example –The Push-Pull system (activity – 20 minutes)
- III. Debrief (journal reflection and discussion – 15 minutes)