

Fruit or Vegetable?

Lisa R. Smith

This lesson focuses on building understanding of scientific classification and plant structure.

Requires: Fruit samples, Fruit samples

Grade Level: 5-7

Duration: 1-2 class periods. (2 periods minimum, depends on student knowledge. (2) include fundamental plant parts and importance (including the function of secondary structure). (2) include an alternative/alternate-based assessment. (2) include an alternative/alternate-based assessment.)

Standards

Grade 5-7 Fundamental Concept: Form & Function

Learning Objectives (LOs) and Assessment

Content Standard A: Science as Inquiry

- Identify the scientific method and its steps
- Understand the scientific method

Content Standard C: Life Science

- Cellular and Tissue Structure of Living Systems
 - Identify and describe the structure of a cell, including the nucleus, cytoplasm, and organelles, and explain the function of each organelle.
 - Explain the structure and function of the cell wall, and identify other structures, such as chloroplasts, in plant cells.
- Structure and Function of Organisms
 - Identify the structure and function of the root system, including the taproot, fibrous root system, and rhizome, and explain the function of each part.
 - Identify the structure and function of the stem system, including the primary growth, secondary growth, and tertiary growth, and explain the function of each part.
- Regulation and Response
 - Identify the structure and function of the leaf system, including the blade, petiole, and midrib, and explain the function of each part.

Additional LOs (Optional)

Grade 5-7 Inquiry Process

- Concept 1: Scientific Inquiry (Investigating and Modeling)