

Fruit or Vegetable?

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

Subject: Plant anatomy, Plant systems

Grade Level: 8-11

Duration: 1-2 class periods. 30 minutes minimum. Includes background knowledge. 20 minutes minimum. Includes lab skills and objectives. Depending on number of specimens available. 30 minutes for alternative/extension-based assessment. (Minimum 40 days/weeks prep work)

Standards

Grade 8: Fundamental Concept: Form & Function

Next Steps: Student-Centered Instruction

Content Standard A: Science as Inquiry

- Develop scientific inquiry skills
- Understand about scientific inquiry

Content Standard C: Life Science

- Cellular and Tissue Organization
 - Identify and compare different tissues in a diverse organism. (Identify a variety of animal tissues including muscle, epithelial, connective, nervous, and plant tissues including primary and secondary growth, secondary growth, and vascular bundles. The same or similar tissues are used.)
- Structure and Function of Organisms
 - Explain the structure of plants, animals, and microorganisms and their ability to adapt to their environment. (Explain the structure and function of various organisms including: prokaryotes, eukaryotes, plants, fungi, and animals, using appropriate structural models.)
 - Explain the relationship between the structure of various organisms and their function and how organisms are adapted to their environment. (Explain the structure and function of various organisms including: prokaryotes, eukaryotes, plants, fungi, and animals, using appropriate structural models.)
- Regulation and Behavior
 - Explain the relationship between structure and function. (Explain the structure and function of various organisms including: prokaryotes, eukaryotes, plants, fungi, and animals, using appropriate structural models.)

Additional Student Objectives

Grade 8: Inquiry Process

- Concept 1: Scientific Thinking (Investigating and Modeling)