

Colorado Agriscience Curriculum

Section: Plant & Soil Science

Unit: Plant Physiology and Growth

Lesson Number: 5

Lesson Title: Plant Hormones and Their Effects

Colorado Agricultural Education Standards:

Agriculture Science 11/12.4: The student will demonstrate and understanding of physiological processes in agriculturally important plants.

Enabler AGS 11/12.4.8: Identify plant structures and their functions

Colorado Science Standards:

SCI 3.3.1, SCI 3.3.5

Student Learning Objectives (Enablers)

As a result of this lesson, the student will ...

1. Understand the overall functions of hormones
2. Identify the major types of plant hormones
3. Analyze the different types of plant responses

Time: Instruction time for this lesson: 50 minutes

Resources:

- Biology; The Dynamics of Life, Glencoe
- <http://www.biologycorner.com/worksheets/planthormones.html>
- <http://www.chadevans.co.uk/asite/gcse/b02/t12.html>

Tools, Equipment, and Supplies

One Needed of the following per pair of students (available from Wards Science Cat.):

- 2 Petri Dishes
- Damp Paper Towels
- 8 Little Marvel Pea Seeds
- 8 Alaska Pea Seeds
- 4 Small Pots for transplanting seedlings
- Cotton Swabs
- Gibberellic Acid
- Masking Tape
- Permanent Marker

Unit 3, Lesson 5, Plant Hormones and Their Effect

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