

UNIT II: THE GOLDEN AGE (1897-1918)

Topic: Agriculture

Lesson 15: Science and Technology

Objective:

Students will learn that science and technology contributed to agricultural prosperity.

Materials:

Student access to *The Iowa Farmstead*, pp. 4-9, 11 and 13

Activity sheet: Scientific and Technological Advancement

Activities:

1. Introduce the lesson by reviewing the following:
 - a. Until this period, farmers used the same farming methods as those of the pioneer period.
 - b. As scientists at the State Agricultural College discovered better ways to raise crops and livestock, farmers adopted these improved farming methods and prospered.
2. Provide students with the activity sheet Scientific and Technological Advancement. Ask students to use the *Iowa Farmstead* to learn about each advancement and to list as many improvements to the farm operation that each advancement created.
3. When students have had adequate time to complete the list, discuss their entries. During the discussion expand on the impact each advancement had on the whole farm operation, including individual farm family members.

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SCIENTIFIC AND TECHNOLOGICAL ADVANCEMENTS

NAME _____

Directions: Use information found in the *Iowa Farmstead* to examine how each scientific and technological advancement improved the farm operation.

Scientific and Technological Advancement

Affect on Farm Operation

(1) Silo (p. 4)

(2) Drainage (p. 5)

(3) Tractor (p. 6)

(4) Truck and automobile (p. 7)

(5) Hog cholera serum (p. 11)

(6) Incubator (p. 9)

(7) Cement (p. 13)

(8) Gasoline engine (p. 8)