

Poultry Science Curriculum Unit Activities *Georgia High School Agriculture Education*

Course Description: This course is designed by the University of Georgia Dept. of Poultry Science as part of the Georgia Agriculture, Food & Natural Resources Pathways as an introductory course into Poultry Science and Avian Biology. The course introduces students to the terminology and knowledge of modern poultry science and the commercial poultry industry, including anatomy and physiology, reproduction, genetics, nutrition, conventional and alternative housing/production methods, broiler-breeders, broilers, commercial egg layers, health, processing, marketing, and more. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities. The purpose of this course is to establish an in-depth understanding and appreciation of Georgia's #1 industry and economic driver among its students.

- 1. FFA & Agriculture Education**
 - a. History of FFA & Agriculture Education Timeline
 - b. Brainstorming for Change - Leadership Activity

- 2. Introduction to Poultry**
 - a. Vertical Integration Pictogram Activity

- 3. Integumentary System (External Anatomy)**
 - a. Live Bird in the Classroom
 - b. "External Parts of a Chicken" Game (Online)

- 4. Genetics & Breeds**
 - a. University of Georgia's Genetics Module
 - b. Punnett Square Activity
 - c. Breed Attribute Webs
 - d. Matching Game

- 5. Internal Anatomy**
 - a. University of Georgia's Internal Anatomy Module
 - b. "Label the Parts" Worksheet
 - c. Matching Game (i.e. Organ w/ Function)

- 6. Reproductive Physiology & Egg Development**
 - a. Female Reproduction Tract Identification Lab
 - i. "Label the Parts" Worksheet
 - b. Egg Breakout/Part Identification
 - i. Matching Game
 - c. Egg Strength Demonstration
 - d. University of Georgia's Incubation Module (*or broken up during Units 9 & 10*)

- 7. Poultry Evaluation (CDE's)**
 - a. Judging Activities for Each Contest Section
 - b. Mock Poultry Evaluation CDE (*Live or Online*)



8. Nutrition

- a. Poultry Feed Formulation Activity (WUFFDA)
- b. University of Georgia's Nutrition Module

9. Health

- a. Disease Attribute Webs
- b. Matching Game

10. Broiler Breeder Production

- a. University of Georgia's Incubation Module
- b. Five Question Review Activity
- c. Concept Map Activity
- d. "Michelangelo Moment" Building Activity
- e. Pictionary

11. Hatchery Operation

- a. University of Georgia's Incubation Module
- b. "Michelangelo Moment" Building Activity
- c. Pictionary

12. Commercial Broiler Production

- a. University of Georgia's Alternative Production Module
- b. Key Word Statement Activity
- c. Broiler Farm Field Trip
- d. "Michelangelo Moment" Building Activity
- e. Pictionary

13. Commercial Layer Production

- a. University of Georgia's Alternative Production Module
- b. University of Georgia's Specific Gravity of Eggs Lab
- c. "Michelangelo Moment" Building Activity
- d. Pictionary

14. Farm to Fork

- a. University of Georgia's Processing & Sensory Evaluation Module
- b. University of Georgia's Food Safety Module
- c. Label/Regulation Research and Presentations
- d. Telephone Game

15. Environmental Management in Poultry Production

- a. University of Georgia's Alternative Production Module
- b. Pictogram Activity

16. Animal Welfare

- a. "Write a Letter" Activity
- b. University of Georgia's Alternative Production Module



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17. Careers and Further Education Opportunities in Poultry Science

- a. Poultry Research Center Tour at University of Georgia Dept. of Poultry Science
- b. School Visit from University of Georgia Dept. of Poultry Science
- c. “Virtual” school visit from University of Georgia Dept. of Poultry Science
- d. Poultry Company Tours/Field Trips
- e. Student-Led Career Exploration Projects and Presentations
 - i. Research and pick a Poultry Science career that interests you – what is it? What does it require in terms of skills, education, etc.?
- f. Poultry Terminology Crossword Puzzle
- g. Poultry Terminology Word Find
- h. Poultry Jeopardy Game

**These activities can also serve as great activities for substitute days, etc.*

