

**AgScience Poultry Science Curriculum**  
**Section 5 – Nutrition**  
**Learning Objectives**

Without the use of any resources, at the end of the Nutrition section you should be able to complete the following learning objectives:

1. Describe the eating habits of chickens and turkeys and the impact this behavior has on how birds should be fed.
2. Describe factors that must be considered when formulating poultry diets.
3. Diagram the digestive system of poultry and identify the function of each segment of the digestive tract.
4. Describe the relative proportion of dietary energy that is derived from carbohydrates, lipids and protein, and name the major dietary ingredient categories that supply energy.
5. List factors that influence a bird's requirement for amino acids.
6. Explain the concept of limiting nutrients, and determine the specific limiting nutrients when given dietary levels and requirements.
7. Describe why the avian requirement for vitamins is relatively high compared to other species.
8. Define the two categories of vitamins, and name the vitamins in each category.
9. Define the two categories of minerals, and provide several examples of minerals in each category.
10. List the general functions for microminerals and provide examples of minerals in this category.
11. Describe the role of cereal grains, oilseed meals, animal protein meals and enzymes in poultry nutrition and include the most common ingredients in each category.
12. Describe the information that must be given for computer-based least-cost formulation programs to work.
13. List the advantages of pelleting poultry diets.
14. Compare and contrast poultry diets for the different segments of production.
15. Describe conditions that result from nutrient deficiencies in poultry.

