

# Agriculture, Food, and Natural Resources: Introduction to Agriscience

Identify the importance of agriscience. The student will be able to: 01.0

- 1 Define agriscience and explain its diversity and scope. 01.01
- 2 Describe the importance of agriculture on a world, national, state, and community scale. 01.02
- 3 Describe the importance of agriculture in each individual's life. 01.03
- 4 Collect and discuss information on current agricultural events. 01.04
- 5 Trace the evolution of agriscience from its beginnings to current applications. 01.05
- 6 Identify the major agricultural production areas and the major commodities produced in the United States and Florida. 01.06
- 7 Describe the diversity of career opportunities in agriculture and its related fields through a Foundational SAE. 01.07
- 8 Describe the relationship between natural resources and agriculture. 01.08
- 9 Describe technology used in agricultural production, processing, and marketing of agricultural products. 01.09

Identify and practice agriculture safety skills. The student will be able to: 02.0

- 1 Identify procedures for safely using equipment. 02.01
- 2 Identify and use proper personal protective equipment (PPE). 02.02
- 3 Describe proper procedures for safety in agriculture classroom, laboratory, and land-laboratory. 02.03

Describe the importance of plants and animals in agriculture. The student will be able to: 03.0

- 1 Identify plants important to agriculture. 03.01
- 2 Identify animals important to agriculture. 03.02
- 3 Demonstrate the proper handling and ethical care of animals. 03.03

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**4 Describe animal rights and animal welfare.** 03.04

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**5 Compare organic farming and conventional farming.** 03.05

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**6 Identify conditions necessary for agricultural production.** 03.06

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**7 Evaluate proper health and nutrition for livestock animals.** 03.07

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**8 Compare companion animals and livestock animals** 03.08

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**8 Identify the agricultural source of consumer products.** 03.09

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**10 Trace the development of an agricultural product from the producer to the consumer.** 03.10

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**Use selected techniques to produce finished products from agricultural materials. The student will be able to:** 04.0

**1 Complete a project safely using the appropriate agricultural tools, machinery, or equipment.** 04.01

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**2 Prepare and process an agricultural product.** 04.02

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**3 Propagate horticulture plants.** 04.03

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**Describe leadership and communication skills. The student will be able to:** 05.0

**1 Describe the aims and purposes of the FFA organization.** 05.01

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**2 Identify opportunities available to FFA members.** 05.02

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**3 Define leadership and different leadership styles.** 05.03

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**4 Define communication and identify methods of communication** 05.04

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**5 Prepare and present and extemporaneous speech.** 05.05

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**Integrate the use of science, mathematics, reading, geography, history, writing, and communication in agriscience and technology. The student will be able to:** 06.0

**1 Apply basic mathematics operations to solve agricultural problems.** 06.01

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**2 Correctly use measuring devices and utilize measurements to solve agricultural problems.** 06.02

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**3 Prepare written and oral materials using correct English grammar.** 06.03

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**4 Identify the main idea in oral presentations and written materials.** 06.04

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**5 Locates, organizes, and interprets information from a variety of agricultural sources.** 06.05

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