

# Middle School Agriculture Education (Eighth Grade) (2009)

Identify the 3 main parts of the agricultural education program. [MSAGED8-1](#)

- a** Define Supervised Agricultural Experience Programs. [MSAGED8-1.A](#)
- b** Define FFA Leadership. [MSAGED8-1.B](#)
- c** Define agricultural education. [MSAGED8-1.C](#)

Develop an understanding of the FFA organization. [MSAGED8-2](#)

- a** Explain the purpose of the FFA. [MSAGED8-2.A](#)
- b** Discuss the history and important dates of the FFA. [MSAGED8-2.B](#)
- c** Explain the FFA creed. [MSAGED8-2.C](#)

Develop leadership skills, characteristics, and responsibilities. [MSAGED8-3](#)

- a** Demonstrate knowledge of parliamentary procedure. [MSAGED8-3.A](#)
- b** Prepare for effective citizenship and participation on our democratic society. [MSAGED8-3.B](#)

Develop and use verbal and nonverbal communication skills. [MSAGED8-4](#)

- a** Compare and contrast verbal and nonverbal communication. [MSAGED8-4.A](#)
- b** Develop effective people skills. [MSAGED8-4.B](#)

Develop work ethic and employable skills through agricultural education and leadership programs. [MSAGED8-5](#)

- a** Maintain accurate records on Supervised Agricultural Experience project. [MSAGED8-5.A](#)
- b** Demonstrate proper workplace etiquette. [MSAGED8-5.B](#)
- c** Understand the job application process. [MSAGED8-5.C](#)

Students will define and explain the horticulture industry. [MSAGED8-6](#)

- a** Define horticulture. [MSAGED8-6.A](#)
- b** Compare/contrast the horticulture and agriculture industry. [MSAGED8-6.B](#)
- c** Research careers in the plant science/horticulture industry. [MSAGED8-6.C](#)

Students will identify plant parts and their functions. MSAGED8-7

- a Identify vegetative parts of the plant (roots, stems, leaves) and their functions. MSAGED8-7.A
- b Identify and use terms that describe reproductive parts of the plant (flower and seed) and their functions. MSAGED8-7.B

Students will define methods of plant propagation either by sexual or asexual reproduction. MSAGED8-8

- a Demonstrate sexual and asexual plant reproduction methods. MSAGED8-8.A
- b Compare and contrast sexual and asexual plant reproduction methods. MSAGED8-8.B

Students will identify plant growth requirements. MSAGED8-9

- a Explain what nutrients plants need. MSAGED8-9.A
- b Describe the environmental conditions for plant growth (light, air, water, soil). MSAGED8-9.B
- c Explain the process of photosynthesis. MSAGED8-9.C

Students will define the forestry & natural resource industry. MSAGED8-10

- a Define Forestry and Natural Resources. MSAGED8-10.A
- b List and explain the different types of natural resources. MSAGED8-10.B
- c Compare/contrast the forestry and natural resource and agriculture industry. MSAGED8-10.C
- d Research careers in the forestry/ natural resource industry. MSAGED8-10.D

Students will identify the importance of the forest. MSAGED8-11

- a Identify different forest products and their uses. MSAGED8-11.A
- b Explain various forest management practices. (Examples include prescribed burns, wild fires, clear cut, thinning, reforestation, etc) MSAGED8-11.B

Students will be able to classify and list examples of trees specific to our region. MSAGED8-12

- a Identify the two types of trees. (Evergreen and Deciduous) MSAGED8-12.A
- b Identify the major tree parts. MSAGED8-12.B
- c Describe the physiological processes of tree growth. MSAGED8-12.C
- d Identify Georgia's commercially important trees. MSAGED8-12.D

Students will explain the importance of conservation and preservation of natural resources. MSAGED8-13

- a Define conservation and preservation of natural resources. MSAGED8-13.A
- b List methods of conservation and preservation of natural resources. MSAGED8-13.B
- c Compare and contrast renewable and nonrenewable resources. MSAGED8-13.C

**Student will be able to describe wildlife and their habitat.** MSAGED8-14

- a Identify local wildlife species and their relationship to the forest.** MSAGED8-14.A
- b Identify Georgia's endangered wildlife species.** MSAGED8-14.B

**The students will identify the role of agriscience in meeting human needs.** MSAGED8-15

- a Define Agriscience and Biotechnology.** MSAGED8-15.A
- b Give examples of how agriscience meets basic human needs (food, clothing, shelter).** MSAGED8-15.B
- c Compare and contrast US and world agricultural practices.** MSAGED8-15.C
- d Discuss how the skills needed for agricultural work have evolved.** MSAGED8-15.D

**The student will identify current trends and issues relating to Agriscience.** MSAGED8-16

- a Explain the role of agriscience and technology in society.** MSAGED8-16.A
- b Describe the role of technology in agriculture and identify major technological advances.** MSAGED8-16.B
- c Compare past agricultural methods to current production methods.** MSAGED8-16.C
- d Evaluate the use of the scientific method to supply the world with needed agricultural products.** MSAGED8-16.D
- e Identify issues associated with biotechnology.** MSAGED8-16.E

**The student will demonstrate the application of agriscience in agricultural animal research and production.** MSAGED8-17

- a Analyze how animal research has benefited the consumer.** MSAGED8-17.A
- b Explain how genetic characteristics are passed through generations.** MSAGED8-17.B
- c List products and byproducts that are derived from animals and their uses.** MSAGED8-17.C
- d Discuss current animal biotechnology research, practices, and issues.** MSAGED8-17.D

**The student will demonstrate the application of agriscience in agricultural plant research and production.** MSAGED8-18

- a Analyze how plant research has benefited the consumer.** MSAGED8-18.A
- b List products and byproducts that are derived from plants and their uses.** MSAGED8-18.B
- c Compares traditional plant breeding and genetic engineering of plants.** MSAGED8-18.C
- d Explain genetically modified organisms and their importance.** MSAGED8-18.D

**The student will identify various career clusters**

- a Production Agriculture** MSAGED8-18.A

**in the field of  
agriscience.** MSAGED8-19

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**b Horticulture** MSAGED8-19.B

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**c Forestry** MSAGED8-19.C

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**d Ag Marketing and Business Management** MSAGED8-19.D

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**e Rural Recreation and Natural Resources** MSAGED8-19.E

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**f Ag Mechanics** MSAGED8-19.F

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**g Ag Processing** MSAGED8-19.G

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**h Ag Sales and Service** MSAGED8-19.H