

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

b Horticulture MSAGED8-19.B

c Forestry MSAGED8-19.C

d Ag Marketing and Business Management MSAGED8-19.D

e Rural Recreation and Natural Resources MSAGED8-19.E

f Ag Mechanics MSAGED8-19.F

g Ag Processing MSAGED8-19.G

h Ag Sales and Service MSAGED8-19.H