Georgia CTAE

Exploring Agriculture Education (Eighth Grade) (2019)

Demonstrate employability skills required by business and industry 1	**1.1** Communicate effectively through writing, speaking, listening, reading, and interpersonal abilities. 1.1
	1.2 Demonstrate creativity by asking challenging questions and applying innovative procedures and methods. 1.2
	1.3 Exhibit critical thinking and problem-solving skills to locate, analyze and apply information in career planning and employment situations. 1.3
	1.4 Model work readiness traits required for success in the workplace including integrity, honesty, accountability, punctuality, time management, and respect for diversity. 1.4
	1.5 Apply the appropriate skill sets to be productive in a changing, technological, diverse workplace to be able to work independently and apply team work skills. 1.5
	1.6 Present a professional image through appearance, behavior and language. 1.6
Describe, illustrate, and apply information pertaining to current events, trends, and research of the total Three-Component Model of Agricultural Education. 2	**2.1** Illustrate all three components of the Total Agricultural Education Program (classroom instruction, FFA, Supervised Agricultural Experience). 2.1
	2.2 Summarize the historical events of the National FFA Organization 2.2
	2.3 Investigate current trends and events relating to National FFA and Georgia FFA Association. 2.3
	2.4 Apply Career Development Event (CDE) and Leadership Development Event (LDE) concepts relating to employability and career readiness. 2.4
	2.5 Create, implement, and maintain records for a Supervised Agriculture Experience (SAE) related to the student's interests and needs. 2.5
Describe, illustrate, and apply information pertaining to current	**3.1** Describe and discuss how agriculture provides basic human needs. 3.1
	3.2 Illustrate the impact of agriculture on Georgia's economy and workforce 3.2

events, trends, research, and careers in the Georgia agriculture industry. 3	**3.3** Summarize important events in the history of agriculture in Georgia. 3.3
	3.4 Investigate examples of commodities produced in your local area. 3.4
Describe, illustrate, and apply information pertaining to current events, trends, research, and careers in Plant Science. 4	**4.1** Create new plants through sexual propagation. 4.1
	4.2 Create new plants using asexual propagation techniques. 4.2
	4.3 Summarize environmental conditions for plant growth (light, air, water, and soil). 4.3
	4.4 Differentiate between the processes of photosynthesis and respiration. 4.4
	4.5 Apply Career Development Event (CDE) and Leadership Development Event (LDE) concepts relating to plant science. 4.5
Describe, illustrate, and apply information pertaining to current events, trends, research, and careers in Forestry and Natural Resources. 5	**5.1** Compare and contrast the forestry and natural resource industry. 5.1
	5.2 Identify different forest products and their uses. 5.2
	5.3 Explain various forest management practices. (Examples include, but are not limited to, prescribed burns, wildfires, clear cut, thinning, and reforestation.) 5.3
	5.4 Investigate careers in forestry and natural resources industries. 5.4
	5.5 Describe the parts of a tree, tree types, and physiological processes of tree growth. 5.5
	5.6 Identify Georgia's commercially important trees. 5.6
	5.7 Apply Career Development Event (CDE) and Leadership Development Event (LDE) concepts relating to forestry and natural resources. 5.7
Describe, illustrate, and apply information pertaining to current events, trends, research, and careers in Animal Science. 6	**6.1** Recognize the signs and symptoms of animal health. 6.1
	6.2 Demonstrate the proper restraint methods for animals. 6.2
	6.3 Create a feed ration for livestock or companion animals. 6.3
	6.4 Evaluate livestock or companion animals based on a breed standard. 6.4
	6.5 Apply Career Development Event (CDE) and Leadership Development Event (LDE) concepts relating to animal science. 6.5
Describe, illustrate, and apply information pertaining to current	**7.1** Discuss and demonstrate safety procedures and appropriate behavior while working in the agriculture classroom, labs, and/or work sites. 7.1

events, trends, research, and careers in Agricultural Mechanics. 7

7.2 **Identify and safely operate all hand tools, power tools, and/or equipment in the agricultural mechanics laboratory.** 7.2

7.3 **Demonstrate proper use of tools for preparing conductors, mounting electrical enclosures, and connecting devices for branch and feeder circuits.** 7.3

7.4 **Plan and construct basic Agricultural Mechanics project utilizing a bill of materials.** 7.4

7.5 **Apply Career Development Event (CDE) and Leadership Development Event (LDE) concepts relating to agricultural mechanics.** 7.5