Georgia CTAE

Exploring Agriculture Education (Seventh 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
Analyze constructs in agri-science. 2	**2.1** Connect and apply scientific concepts in practical agricultural applications. 2.1
	2.2 Analyze technological trends and research in agricultural and natural resources. 2.2
	2.3 Explain the global economic impact of agriculture in meeting human needs for food, fiber, and natural resources 2.3
	2.4 Investigate and draw conclusions about how agriculture impacts the local and state economy. 2.4
Apply principles of leadership, personal growth and career success through activities of the National FFA Organization. 3	**3.1** Explain the benefits of the National FFA Organization. 3.1
	3.2 Expand leadership goals, personal growth and career success through Agriculture Education. 3.2

	3.3 Describe the knowledge and skills needed for Career Development Event (CDE) activities in FFA. 3.3
	3.4 Design and carry out a Supervised Agricultural Experience (SAE) program based on career goals and industry needs for each individual. 3.4
Compare and contrast essential processes in the growth and development of plants. 4	**4.1** Explain the interrelationship between the vegetative components of a plant through analysis of their functions. 4.1
	4.2 Explain the structure and function of the reproductive parts of plants. 4.2
	4.3 Explain photosynthesis and the environmental conditions needed for plant growth. 4.3
Investigate the production of livestock, poultry and dairy animals. 5	**5.1** Apply concepts in selecting major breeds of species for agricultural production. 5.1
	5.2 Distinguish between the functions of the components of the digestive, reproductive, and other major systems of animals. 5.2
	5.3 Analyze the role, importance, and scope of the dairy, beef, pork, equine, and small ruminant animal industries. 5.3
Explain sustainable approaches in wildlife and natural resources management. 6	**6.1** Investigate potential careers in wildlife and natural resources. 6.1
	6.2 Communicate information about wildlife to heighten awareness regarding conservation and resource preservation. 6.2
	6.3 Assess ecosystems in terms of sustainable habitat management 6.3
	6.4 Analyze local resource concerns based on the SWAPA+H criteria (soil, water, air, plants, animals, and human considerations). 6.4
Use principles of engineering to solve problems in agricultural settings. 7	**7.1** Differentiate between the common types of tools and equipment used in agricultural applications. 7.1
	7.2 Calculate linear measurements and simple angles using approved methods of measurement. 7.2
	7.3 Investigate concepts in agricultural power, structural, and technical systems. 7.3
	7.4 Select and use appropriate safety equipment in agricultural settings. 7.4