

# Principles of Agriculture, Food, & Natural Resources

## At-A-Glance - Lamar CISD

<b>Ongoing Skills Imbedded All Year</b>	<b>Professional Standards/Employability Skills/Technical Skills</b>		
	<p>1.A The student will identify career development, education, and entrepreneurship opportunities in the field of agriculture, food, and natural resources.</p> <p>1.B The student will apply competencies related to resources, information, interpersonal skills, problem solving, critical thinking, and systems of operation in agriculture, food, and natural resources.</p> <p>1.C The student will demonstrate knowledge of personal and occupational safety, environmental regulations, and first-aid policy in the workplace.</p> <p>1.D The student will analyze employers' expectations such as appropriate work habits, ethical conduct, legal responsibilities, and good citizenship skills.</p> <p>1.E The student will identify careers in agriculture, food, and natural resources with required aptitudes in science, technology, engineering, mathematics, language arts, and social studies.</p> <p>6.A The student will demonstrate written and oral communication skills appropriate for formal and informal situations such as prepared and extemporaneous presentations.</p> <p>6.B The student will demonstrate effective listening skills appropriate for formal and informal situations.</p>		
	<b>Safety</b>		
	<p>14.B The student will use safe and appropriate laboratory procedures and policies.</p> <p>15.A The student will determine the effects of agriculture, food, and natural resources upon safety, health, and the environment.</p> <p>15.B The student will identify regulations relating to safety, health, and environmental systems in agriculture, food, and natural resources.</p> <p>15.C The student will identify and design methods to maintain and improve safety, health, and environmental systems in agriculture, food, and natural resources.</p>		
<b>Grading Period</b>	<b>Unit Name</b>	<b>Estimated Time Frame</b>	<b>TEKS</b>
<b>Grading Period 1 29 Days</b>	<b>Introduction and Procedures</b>	<b>5 Days</b>	1.B, 1D, 5.B, 6.A
	<p>1.B The student will apply competencies related to resources, information, interpersonal skills, problem solving, critical thinking, and systems of operation in agriculture, food, and natural resources.</p> <p>1.D The student will analyze employers' expectations such as appropriate work habits, ethical conduct, legal responsibilities, and good citizenship skills.</p> <p>5.B The student will develop and demonstrate personal growth skills and collaborate with others to accomplish organizational goals and objectives.</p> <p>6.A The student will demonstrate written and oral communication skills appropriate for formal and informal situations such as prepared and extemporaneous presentations.</p>		
	<b>What is Agriculture?</b>	<b>5 Days</b>	4.A, 4.B, 4.C, 4.D, 4.E, 4.F
	<p>4.A The student will define the scope of agriculture.</p> <p>4.B The student will analyze the scope of agriculture, food, and natural resource and its effect upon society.</p> <p>4.C The student will evaluate significant historical and current agriculture, food, and natural resource developments.</p> <p>4.D The student will identify potential future scenarios for agriculture, food, and natural resource systems including global impacts.</p> <p>4.E The student will describe how emerging technologies and globalization impacts agriculture, food, and natural resources.</p> <p>4.F The student will compare and contrast issues impacting agriculture, food, and natural resources such as biotechnology, employment, safety, environmental, and animal welfare issues.</p>		
	<b>Agriculture and the World Market Place</b>	<b>3 Days</b>	3.A, 3.B
	<p>3.A The student will compare and contrast global agricultural markets, currency, and trends.</p> <p>3.B The student will evaluate marketing factors and practices that impact the global markets.</p>		
<b>Introduction to FFA</b>	<b>10 Days</b>	2.C, 2.D	
<p>2.C The student will participate in youth leadership opportunities to create a well-rounded experience program.</p> <p>2.D The student will produce and participate in a local program of activities using a strategic planning process.</p>			

	<b>Leadership/Parliamentary Procedure</b>	<b>6 Days</b>	5.A, 5.B, 5.C
	<p>5.A The student will develop and demonstrate leadership skills and collaborate with others to accomplish organizational goals and objectives.</p> <p>5.B The student will develop and demonstrate personal growth skills and collaborate with others to accomplish organizational goals and objectives.</p> <p>5.C The student will demonstrate democratic principles in conducting effective meetings.</p>		
<b>Grading Period 2</b> <b>27 Days</b>	<b>Technology and Personal Management in Agriculture</b>	<b>5 Days</b>	9.A, 9.B, 9.C, 9.D
	<p>9.A The student will apply technology applications such as industry-relevant software and Internet applications.</p> <p>9.B The student will use collaborative, groupware, and virtual meeting software.</p> <p>9.C The student will analyze the benefits and limitations of emerging technology such as online mapping systems, drones, and robotics.</p> <p>9.D The student will explain the benefits of computer-based and mobile application equipment in agriculture, food, and natural resources.</p>		
	<b>Supervised Agriculture Experience (AET)</b>	<b>6 Days</b>	2.A, 2.B, 8.A, 8.B, 9.D
	<p>2.A The student will plan, propose, conduct, document, and evaluate a supervised agricultural experience program as an experiential learning activity.</p> <p>2.B The student will apply proper record-keeping skills as they relate to the supervised agricultural experience.</p> <p>8.A The student will develop a formal business plan.</p> <p>8.B The student will develop, maintain, and analyze records.</p> <p>9.D The student will explain the benefits of computer-based and mobile application equipment in agriculture, food, and natural resources.</p>		
	<b>General Shop Safety and District Testing</b>	<b>16 Days</b>	1.C, 14.A, 14.B, 15.A, 15.B, 15.C
	<p>1.C The student will demonstrate knowledge of personal and occupational safety, environmental regulations, and first-aid policy in the workplace.</p> <p>14.A The student will identify major areas of power, structural, and technical systems.</p> <p>14.B The student will use safe and appropriate laboratory procedures and policies.</p> <p>15.A The student will determine the effects of agriculture, food, and natural resources upon safety, health, and the environment.</p> <p>15.B The student will identify regulations relating to safety, health, and environmental systems in agriculture, food, and natural resources.</p> <p>15.C The student will identify and design methods to maintain and improve safety, health, and environmental systems in agriculture, food, and natural resources.</p>		
<b>Grading Period 3</b> <b>28 Days</b>	<b>Specific Tool and Skill Projects</b>	<b>21 Days</b>	1.C, 14.A, 14.B, 15.A, 15.B, 15.C
	<p>1.C The student will demonstrate knowledge of personal and occupational safety, environmental regulations, and first-aid policy in the workplace.</p> <p>14.A The student will identify major areas of power, structural, and technical systems.</p> <p>14.B The student will use safe and appropriate laboratory procedures and policies.</p> <p>15.A The student will determine the effects of agriculture, food, and natural resources upon safety, health, and the environment.</p> <p>15.B The student will identify regulations relating to safety, health, and environmental systems in agriculture, food, and natural resources.</p> <p>15.C The student will identify and design methods to maintain and improve safety, health, and environmental systems in agriculture, food, and natural resources.</p>		
	<b>Semester Review and Exams</b>	<b>7 Days</b>	
	Review of and testing over all TEKS addressed during the semester.		
<b>Grading Period 4</b> <b>31 Days</b>	<b>Animal Breeds &amp; Classes</b>	<b>31 Days</b>	12.A, 12.B, 12.C, 12.D
	<p>12.A The student will describe animal growth and development.</p> <p>12.B The student will identify animal anatomy and physiology.</p> <p>12.C The student will identify and evaluate breeds and classes of livestock.</p> <p>12.D The student will explain animal selection, reproduction, breeding, and genetics.</p>		

<b>Grading Period 5 30 Days</b>	<b>Soil</b>	<b>11 Days</b>	10.A, 10.B, 10.C
	10.A The student will identify the components and properties of soils. 10.B The student will identify and describe the process of soil formation. 10.C The student will conduct experiments related to soil chemistry.		
	<b>Food Research</b>	<b>5 Days</b>	7.A, 7.B, 7.C
	7.A The student will discuss major research and developments in the fields of agriculture, food, and natural resources. 7.B The student will use a variety of resources for research and development. 7.C The student will describe scientific methods of research.		
	<b>Energy</b>	<b>5 Days</b>	15.D, 15.E
	15.D The student will research and analyze alternative energy sources that stem from or impact agriculture, food, and natural resources. 15.E The student will evaluate energy and water conservation methods.		
	<b>Plants</b>	<b>9 Days</b>	11.A, 11.B, 11.C, 11.D, 11.E
11.A The student will describe the structure and functions of plant parts. 11.B The student will discuss and apply plant germination, growth and development. 11.C The student will describe plant reproduction, genetics, and breeding. 11.D The student will identify plants of importance to agriculture, food, and natural resources. 11.E The student will use tools, equipment, and personal protective equipment common to plant systems.			
<b>Grading Period 6 27 Days</b>	<b>Shop</b>	<b>13 Days</b>	14.C, 14.D, 14.E
	14.C The student will create proposals that include bill of materials, budget, schedule, drawings, and technical skills developed for basic power, structural, and technical system projects or structures. 14.D The student will identify building materials and fasteners. 14.E The student will use tools, equipment, and personal protective equipment common to power, structural, and technical systems.		
	<b>Ag Careers</b>	<b>5 Days</b>	1.A, 1.B, 1.C, 1.D, 1.E, 6.A, 6.B
	1.A The student will identify career development, education, and entrepreneurship opportunities in the field of agriculture, food, and natural resources. 1.B The student will apply competencies related to resources, information, interpersonal skills, problem solving, critical thinking, and systems of operation in agriculture, food, and natural resources. 1.C The student will demonstrate knowledge of personal and occupational safety, environmental regulations, and first-aid policy in the workplace. 1.D The student will analyze employers' expectations such as appropriate work habits, ethical conduct, legal responsibilities, and good citizenship skills. 1.E The student will identify careers in agriculture, food, and natural resources with required aptitudes in science, technology, engineering, mathematics, language arts, and social studies. 6.A The student will demonstrate written and oral communication skills appropriate for formal and informal situations such as prepared and extemporaneous presentations. 6.B The student will demonstrate effective listening skills appropriate for formal and informal situations.		
	<b>Global Food System</b>	<b>5 Days</b>	13.A, 13.B, 13.C, 13.D
	13.A The student will evaluate food products and processing systems. 13.B The student will determine trends in world food production. 13.C The student will discuss current issues in food production. 13.D The student will use tools, equipment, and personal protective equipment common to food products and processing systems.		
	<b>Semester Review and Exams</b>	<b>4 Days</b>	
Review of and testing over all TEKS addressed during the semester.			