

<p style="text-align: center;">Livestock Production TEKS/LINKS – Student Objectives One Credit</p>	<p style="text-align: center;">Suggested Time Ranges</p>
<p>First Six Weeks</p>	
<p>Employability LP 1(A) The student will identify career development and entrepreneurship opportunities in the field of animal systems. LP 1(B) The student will apply competencies related to resources, information, interpersonal skills, and systems of operation in animal systems. LP 1(C) The student will demonstrate knowledge of personal and occupational safety and health practices in the workplace. LP 1(D) The student will identify employers' expectations, including appropriate work habits, ethical conduct, and legal responsibilities. LP 1(E) The student will demonstrate good citizenship characteristics such as stewardship, advocacy, and community leadership. LP 1 (F) The student will research career topics using technology such as the Internet.</p>	<p style="text-align: center;">2 days ongoing</p>
<p>SAE LP 2(A) The student will plan, propose, conduct, and evaluate a supervised agriculture experience program as an experiential learning activity. LP 2(B) The student will apply proper record-keeping skills as they relate to the supervised experience. LP 2(C) The student will participate in youth leadership opportunities to create a well-rounded experience program. LP 2(D) The student will produce and participate in a local program of activities using a strategic planning process.</p>	<p style="text-align: center;">2 days ongoing</p>
<p>Technology LP 3(A) The student will assess the importance of the United States impact on world commodity markets. LP 3(B) The student will apply the principles of livestock breeding and nutrition in predicting the impact of current advances in genetics. LP 3(C) The student will examine the interrelationship of plants and animals such as forage identification, rotational grazing, and grass protein levels. LP 4(A) The student will gather performance data. LP 4(B) The student will describe common veterinary procedures and skills. LP 4(C) The student will practice proper animal restraint techniques. LP 4(D) The student will demonstrate identification techniques. LP 4(E) The student will demonstrate effective management strategies such as financial planning and managing government regulations.</p>	<p style="text-align: center;">12 days</p>

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<p>Breed, Vet Skills, Anatomy Systems LP 5(A) The student will explain the skeletal, muscular, respiratory, reproductive, and circulatory systems of animals. LP 5(B) The student will evaluate vital signs and normal behavior.</p>	<p style="text-align: center;">12 days</p>
<p>Second Six Weeks</p>	
<p>Breed, Vet Skills, Anatomy Systems <i>continue</i> LP 4(A) The student will explain the skeletal, muscular, respiratory, reproductive, and circulatory systems of animals. LP 4(B) The student will evaluate vital signs and normal behavior.</p>	<p style="text-align: center;">2 days</p>
<p>Reproduction LP 7(A) The student will describe the reproductive system of various livestock. LP 7(B) The student will explain the use of genetics in animal agriculture such as Expected Progeny Differences (EPD's), phenotype and genotype. LP 7(C) The student will identify systems of animal breeding. LP 7(D) The student will research current and emerging technologies in animal reproduction such as cloning, embryo transfer, invitrofertilization, and artificial insemination.</p>	<p style="text-align: center;">8 days</p>
<p>Genetics LP 7(E) The student will design and conduct experiments to support known principles of genetics.</p>	<p style="text-align: center;">3 days</p>
<p>Nutrition LP 6(A) The student will describe the digestive systems of ruminant and non-ruminant animals. LP 6(B) The student will identify sources of nutrients and classes of feed. LP 6(C) The student will identify vitamins, minerals, and feed additives. LP 6(D) The student will formulate rations. LP 6(E) The student will discuss feeding practices and feed quality issues.</p>	<p style="text-align: center;">12 days</p>
<p>Third Six Weeks</p>	
<p>Pest/Disease LP 8(A) The student will identify and describe the role of bacteria, fungi, viruses, genetics, and nutrition in disease. LP 8(B) The student will identify methods of disease control, treatment, and prevention.</p>	<p style="text-align: center;">12 days</p>

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<p>LP 8(C) The student will classify internal and external parasites including treatment and prevention.</p>	
<p>Business Operations LP 9(A) The student will evaluate the relationship between livestock commodity markets. LP 9(B) The student will formulate rations based on least-cost factors.</p>	<p style="text-align: center;">11 days</p>
<p>Agriculture Industry – Livestock Management LP 10(A) The student will design, conduct, and complete research to identify and solve management problems. LP 10(B) The student will use charts, tables, or graphs to prepare written summaries of data such as nutrition, digestion, and reproduction data obtained in a laboratory activity and an individual scientific research project.</p>	<p style="text-align: center;">2 days</p>
<p>Fourth Six Weeks</p>	
<p>Livestock Nutrition LP 6(B) The student will identify sources of nutrients and classes of feed. LP 6(C) The student will identify vitamins, minerals, and feed additives. LP 6(D) The student will formulate rations. LP 6(E) The student will discuss feeding practices and feed quality issues.</p>	<p style="text-align: center;">10 days</p>
<p>Genetics & Reproductions LP 3(B) The student will apply the principles of livestock breeding and nutrition in predicting the impact of current advances in genetics. LP 7(A) The student will describe the reproductive system of various livestock. LP 7(B) The student will explain the use of genetics in animal agriculture such as Expected Progeny Differences (EPD's), phenotype and genotype. LP 7(C) The student will identify systems of animal breeding. LP 7(E) The student will design and conduct experiments to support known principles of genetics.</p>	<p style="text-align: center;">12 days</p>
<p>Livestock Pests & Diseases LP 5(B) The student will evaluate vital signs and normal behavior. LP 8(A) The student will identify and describe the role of bacteria, fungi, viruses, genetics, and nutrition in disease. LP 8(B) The student will identify methods of disease control, treatment, and prevention. LP 8(C) The student will classify internal and external parasites</p>	<p style="text-align: center;">10 days</p>

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including treatment and prevention	
<p>Fifth Six Weeks</p>	
<p>Genetic Engineering in Livestock LP 7(B) The student will explain the use of genetics in animal agriculture such as Expected Progeny Differences (EPD’s), phenotype and genotype. LP 7(D) The student will research current and emerging technologies in animal reproduction such as cloning, embryo transfer, invitro fertilization, and artificial insemination.</p>	<p style="text-align: center;">20 days</p>
<p>Care of Livestock LP 4(B) The student will evaluate vital signs and normal behavior. LP 4(C) The student will practice proper animal restraint techniques.</p>	<p style="text-align: center;">13 days</p>
<p>Sixth Six Weeks</p>	
<p>Livestock Management LP 4(B) The student will describe common veterinary procedures and skills. LP 4(D) The student will demonstrate identification techniques. LP 4(E) The student will demonstrate effective management strategies such as financial planning and managing government regulations. LP 10(A) The student will design, conduct, and complete research to identify and solve management problems. LP 10(B) The student will use charts, tables, or graphs to prepare written summaries of data such as nutrition, digestion, and reproduction data obtained in a laboratory activity and an individual scientific research project.</p>	<p style="text-align: center;">18 days</p>
<p>Livestock Industry & Commodity Markets LP 9(A) The student will evaluate the relationship between livestock commodity markets. LP 9(B) The student will formulate rations based on least-cost factors. LP 3(A) The student will assess the importance of the United States impact on world commodity markets. LP 3(C) The student will examine the interrelationship of plants and animals such as forage identification, rotational grazing, and grass protein levels.</p>	<p style="text-align: center;">15 days</p>