



Career & Technology Animal Science

Academic Alignment with TEKS	CTE TEKS	Content/Vocabulary	Guiding Questions	Activities	Resources and Web links
<p>Math §111.36. 1</p> <p>English §110.31. 1,10,13,14,16,17,18,19,21</p> <p>§110.32. 1,10,13,14,16,17,18,19,21</p> <p>§110.33. 1,10,13,14,16,17,18,19,21</p> <p>§110.34. 1,10,13,14,16,17,18,19,21</p> <p>Science §112.43. 4,5</p> <p>Social Studies §113.37. 1,3,4,8</p>	<p>TEKS</p> <p>The student explains animal anatomy and physiology related to nutrition, reproduction, health, and management of domesticated animals.</p>	<p>Supervised Agricultural Experience Placement Entrepreneurship Research Exploratory Improvement Supplemental Record book</p>	<p>1.a Identify career development and entrepreneurship opportunities in the field of animal science;</p> <p>1.b Apply competencies related to resources, information, interpersonal skills, and systems of operation in animal science;</p> <p>1.c Demonstrate knowledge of personal and occupational safety practices in the workplace;</p> <p>1.d Identify employers' expectations, appropriate work habits, and good citizenship skills; and</p> <p>1.e Plan and manage supervised agricultural experience programs.</p>	<p>. SAE PowerPoint Set up record book on computer 35 hours of out of class time spent learning about Animal Science</p>	<p>www.theaet.com</p>
<p>Math §111.32. 1,3,4,5</p> <p>English §110.31.</p>	<p>TEKS</p> <p>The student explains animal anatomy and physiology related to nutrition, reproduction, health, and management</p>	<p>Ruminant, Rumen, Reticulum, Omasum, Abomasum, Water, Fats, Vitamins, Minerals, Protiens, Carbohydrates</p>	<p>2a Know the skeletal, muscular, respiratory, and circulatory systems of animals;</p> <p>2.b Explain the anatomy and physiology of other</p>	<p>Diagram, label, and explain Digestive system</p>	



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<p>1,2,6,11,13,15,17,18,19,26</p> <p>§110.32. 1,2,6,11,13,15,17,18,19,26</p> <p>§110.33. 1,2,6,11,13,15,17,18,19,26</p> <p>§110.34. 1,10,13,14,16,17,18,19,21</p> <p>Science §112.43. 4,5,9,10</p> <p>Social Studies §113.37. 5</p>	<p>of domesticated animals.</p> <p>The student determines nutritional requirements of ruminant and non-ruminant animals.</p>		<p>systems; and</p> <p>3.c Explain vital signs and normal behavior.</p> <p>3(A) analyze the digestive system;</p> <p>(B) identify sources of nutrients and classes of feed;</p> <p>(C) identify vitamins, minerals, and feed additives;</p> <p>(D) formulate rations; and</p> <p>(E) discuss feeding practices and feed quality issues.</p>		
<p>Math §111.36. 1,3,10</p> <p>English §110.31. 1,2,6,8,11,12,13,15, 17,18,19,20,21,22,26</p> <p>§110.32. 1,2,6,8,11,12,13,15, 17,18,19,20,21,22,26</p> <p>§110.33. 1,2,6,8,11,12,13,15,</p>	<p>TEKS</p> <p>The student explains animal genetics and reproduction.</p>	<p>Artificial Insemination, Cloning, Testicles, Epididmus, Vas Deferense, Cowpers Gland, Prostate, Seminal Vesicles, Glans Penis, Urethra, Artificial Vagina, Liquid Nitrogen, Vagina, Vulva, Cervix, Uterus, Uterine Horns, Fallopian tube, Ovaries, Estrus, Metestrus, Diestrus, Proestrus, Estrous Cycle, Lutalyse,</p>	<p>4(A) analyze the reproductive system;</p> <p>(B) explain the uses of genetics in animal agriculture;</p> <p>(C) list systems of animal breeding; and</p> <p>(D) explain current technologies in animal reproduction.</p>	<p>Research and explain Cloning & Artificial Insemination</p>	



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<p>17,18,19,20,21,22,26</p> <p>§110.34. 1,2,6,8,11,12,13,15, 17,18,19,20,21,22,26</p> <p>Science §112.43. 9,10</p> <p>Social Studies §113.32. 5,11</p>					
<p>Math §111.36. 1,2</p> <p>English §110.31. 1,2,6,8,11,13,15, 17,18,19,26</p> <p>§110.32. 1,2,6,8,11,13,15, 17,18,19,26</p> <p>§110.33. 1,2,6,8,11,13,15, 17,18,19,26</p> <p>§110.34. 1,2,6,8,11,13,15, 17,18,19,26</p> <p>Science §112.43.</p>	<p>TEKS</p> <p>The student identifies animal pests and diseases.</p>	<p>Vaccination Disease Live virus Contamination Bacteria Rumen</p>	<p>5(A) list the role of bacteria, fungi, viruses, genetics, and nutrition in disease;</p> <p>(B) identify methods of disease control, treatment, and prevention; and</p> <p>(C) evaluate diseases and parasites of poultry.</p>	<p>Vaccination in Pigs Poultry DVDs</p>	<p>www.usda.gov</p>



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<p>4,5,6,7,8</p> <p>Social Studies §113.31. 1,2</p>					
<p>Math §111.36. 1,11</p> <p>English §110.31. 1,2,6,11,12,13,15,18,19</p> <p>§110.32. 1,2,6,11,12,13,15,18,19</p> <p>§110.33. 1,2,6,11,12,13,15,18,19</p> <p>§110.34. 1,2,6,11,12,13,15,18,19</p> <p>Science §112.43. 4,5,6,11,12</p> <p>Social Studies §113.31. 13</p>	<p>TEKS</p> <p>The student recognizes livestock management techniques.</p>	<p>Surgery Vaccination Branding Liquid Nitrogen Freeze Branding Ear Notching</p>	<p>6A) perform common surgical skills;</p> <p>(B) perform common immunization skills;</p> <p>(C) demonstrate livestock identification procedures; and</p> <p>(D) practice proper restraining methods.</p>	<p>Powerpoint Castrate pigs if available Weigh pigs if available</p>	



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<p>Math §111.36. 8,11</p> <p>English §110.31. 1,2,5,6,7,8,10,11,13,14,15, 16,18,19,20,21,22,23,24,25,26</p> <p>§110.32. 1,2,5,6,7,8,10,11,13,14,15, 16,18,19,20,21,22,23,24,25,26</p> <p>§110.33. 1,2,5,6,7,8,10,11,13,14,15, 16,18,19,20,21,22,23,24,25,26</p> <p>§110.34. 1,2,5,6,7,8,10,11,13,14,15, 16,18,19,20,21,22,23,24,25,26</p> <p>Science §112.43. 4,6,11</p> <p>Social Studies §113.31. 13,15</p>	<p>TEKS</p> <p>The student knows current topics in animal science.</p>	<p>PETA Animal Rights EPD Milking Calving Ease Weaning Weight</p>	<p>7(A) identify the legal aspects of animal welfare and rights; and</p> <p>(B) evaluate breeding animals selected by performance testing, production records, progeny testing, and visual appraisal.</p>	<p>www.usda.gov Colorado Extension Service</p>	
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