## Veterinary Medical Applications At-A-Glance - Lamar CISD

	Professional Standards/Employability Skills/Technical Skills				
Ongoing Skills Imbedded All Year	<ul> <li>1(A) The student will identify career development and entrepreneurship opportunities in the field of veterinary science.</li> <li>1(B) The student will demonstrate competencies related to resources, information, interpersonal skills, and systems of operation in veterinary science.</li> <li>1(C) The student will demonstrate knowledge of personal and occupational health and safety practices in the workplace.</li> <li>1(D) The student will identify employers' expectations, including appropriate work habits, ethical conduct, and legal responsibilities.</li> <li>1(E) The student will demonstrate characteristics of good citizenship such as stewardship, advocacy, and community leadership.</li> <li>1(F) The student will research career topics using technology such as the Internet.</li> </ul>				
Certification Based Skills	Keep work areas clean and demonstrate knowledge of basic sanitary procedures. Handle animals in a safe, humane manner. Use proper procedure for placing animal in cages, large animals in stall, moving cattle/horses through chutes and safely haltering/releasing a large animal. Observes patients and reports observations to attending veterinarian. Properly bath/dips animals following protocols. Maintains cages/kennels/stalls and manages proper bedding. Recognizes common breeds and varieties of exotic animals. Describe and demonstrate proper method of administration of injectable/topical/oral drugs for various species. Identify syringes, fill with medication, and properly dispose of sharp objects used in the clinic. Manages information and records relative to boarding of animal.				
Grading Period	Unit Name	Estimated Time Frame	TEKS		
	SAEs & FFA	9 Days	2A, 2B, 2C, 2D, 1E		
	<ul> <li>2(A) The student will plan, propose, conduct, document, and evaluate a supervised agriculture experience program as an experiential learning activity.</li> <li>2(B) The student will apply proper record-keeping skills as they relate to the supervised agriculture experience.</li> <li>2(C) The student will participate in youth leadership opportunities to create a well-rounded experience program.</li> <li>2(D) The student will produce and participate in a local program of activities using a strategic planning process.</li> <li>1(E) The student will demonstrate characteristics of good citizenship such as stewardship, advocacy, and community leadership</li> </ul>				
	Careers in Animal Health	5 Days	1A, 1B, 1C, 1D, 1F		
Grading Period 1 <mark>29 Days</mark>	<ul> <li>1(A) The student will identify career development and entrepreneurship opportunities in the field of veterinary science.</li> <li>1(B) The student will demonstrate competencies related to resources, information, interpersonal skills, and systems of operation in veterinary science.</li> <li>1(C) The student will demonstrate knowledge of personal and occupational health and safety practices in the workplace.</li> <li>1(D) The student will identify employers' expectations, including appropriate work habits, ethical conduct, and legal responsibilities.</li> <li>1(F) The student will research career topics using technology such as the Internet.</li> </ul>				
	Importance of Animal Health	5 Days	3A, 3B, 3D		
	<ul><li>3(A) The student will explain the human-animal bond and how to interact with clients and their animals.</li><li>3(B) The student will identify trends, issues, and historical events that have influenced animal use and care.</li><li>3(D) The student will evaluate the principles of veterinary medical ethics.</li></ul>				
	Safety and Handling	10 Days	3A, 3C, 7D		
	<ul> <li>3(A) The student will explain the human-animal bond and how to interact with clients and their animals.</li> <li>3(C) The student will describe the legal aspects of animal welfare and animal rights.</li> <li>7(D) The student will describe normal animal behavior and vital signs compared to sick animals using medical terminology.</li> </ul>				
	Office Management	5 Days	3A, 3E, 4A, 4B, 4C, 4D		
	<ul> <li>3(A) The student will explain the human-animal bond and how to interact with clients and their animals.</li> <li>3(E) The student will review policies and procedures in veterinary medicine that reflect various local, state, and federal laws.</li> <li>4(A) The student will identify skills needed to communicate effectively with clients and pet owners in the community.</li> <li>4(B) The student will identify vital information and demonstrate effective communication skills necessary to solve problems.</li> <li>4(C) The student will explain the role and importance of marketing and its effects on the success of a veterinary hospital.</li> <li>4(D) The student will develop skills involving the use of electronic technology commonly found in a veterinary hospital such as centrifuge, autoclave, and radiography positions.</li> </ul>				

	Animal Health Terminology	11 Days	5A, 5B, 5D, 5E	
Grading Period 2 <mark>26 Days</mark>	<ul> <li>5(A) The student will analyze veterinary terms to discover their meanings and recognize common Greek and Latin prefixes, suffixes, and roots.</li> <li>5(B) The student will use directional anatomical terms appropriately.</li> <li>5(D) The student will describe the major body systems using appropriate medical terminology.</li> <li>5(E) The student will recognize, pronounce, spell, and define medical terms relating to diagnosis, pathology, and treatment of animals.</li> </ul>			
	Anatomy & Physiology	10 Days	5B, 5C, 5D, 7A, 7B	
	<ul> <li>5(B) The student will use directional anatomical terms appropriately.</li> <li>5(C) The student will identify anatomical structures of animals.</li> <li>5(D) The student will describe the major body systems using appropriate medical terminology.</li> <li>7(A) The student will identify the parts of the skeletal, muscular, respiratory, circulatory, digestive, endocrine, and nervous systems.</li> <li>7(B) The student will describe the functions of the skeletal, muscular, respiratory, circulatory, digestive, endocrine, and nervous systems.</li> </ul>			
	Anatomy & Physiology continue	10 Days	5B, 5C, 5D, 7A, 7B	
	<ul> <li>5(B) The student will use directional anatomical terms appropriately.</li> <li>5(C) The student will identify anatomical structures of animals.</li> <li>5(D) The student will describe the major body systems using appropriate medical terminology.</li> <li>7(A) The student will identify the parts of the skeletal, muscular, respiratory, circulatory, digestive, endocrine, and nervous systems.</li> <li>7(B) The student will describe the functions of the skeletal, muscular, respiratory, circulatory, digestive, endocrine, and nervous systems.</li> </ul>			
Grading Period 3 25 Days	Hospital Procedures, Clinical Exams and Mid-term Review/Exams	15 Days	3E, 4B, 4D, 7C, 10A, 10B, 10C, 10D, 10E, 10F, 14A, 14B, 14C, 14D, 14E, 14F	
	<ul> <li>3(E) The student will review policies and procedures in veterinary medicine that reflect various local, state, and federal laws.</li> <li>4(B) The student will identify vital information and demonstrate effective communication skills necessary to solve problems.</li> <li>4(D) The student will develop skills involving the use of electronic technology commonly found in a veterinary hospital such as centrifuge, autoclave, and radiography positions.</li> <li>7(C) The student will identify appropriate anatomical sites for injections, measuring vital signs, and collecting blood samples for various animal species.</li> <li>10(A) The student will describe the characteristics and signs of a healthy animal.</li> <li>10(B) The student will recognize examples of abnormalities and relate them to their associated problems and illnesses.</li> <li>10(C) The student will take temperature, pulse, and respiration for a variety of animals.</li> <li>10(D) The student will explain procedures for physical examinations.</li> <li>10(F) The student will explain procedures for physical examinations.</li> <li>10(F) The student will explain the regional approach to assess an animal's health.</li> <li>14(A) The student will explain appropriate hospital procedures.</li> <li>14(B) The student will demonstrate animal care, and describe first aid procedures, including cardiopulmonary resuscitation, control of bleeding, and treatment for shock, for small and large animals.</li> <li>14(D) The student will demonstrate animal care skills such as administering medications, nail trimming, bathing, grooming, ear cleaning, expressing anal sacs, dental prophylaxis, enema administering medication of animals.</li> <li>14(E) The student will demonstrate therapeutic care such as patient observation, maintaining and administering fluids, applying bandages, caring for open wounds, and managing hydrotherapy and physical therapy.</li> <li>14(F) The student will describe skills involved in the reproductive and genetic evaluation of animals.</li> </ul>			
Grading Period 4 <mark>32 Days</mark>	Laboratory and Radiology Procedures	11 Days	4D, 7C, 7D, 11A, 11B, 11C, 13A, 13B, 13C, 13D, 13E	
	<ul> <li>4(D) The student will develop skills involving the use of electronic technology commonly found in a veterinary hospital such as centrifuge, autoclave, and radiography positions.</li> <li>7(C) The student will identify appropriate anatomical sites for injections, measuring vital signs, and collecting blood samples for various animal species.</li> <li>7(D) The student will describe normal animal behavior and vital signs compared to sick animals using medical terminology.</li> </ul>			

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8E, 8F, B, 16C,					
rsion, and oon*. I.S. Drug					
16(C) The student will calculate dosage using factors such as concentration of drug, weight of animal, and required dosage. 16(D) The student will complete a prescription label with identifiers that are required by the U.S. Food and Drug Administration. 16(E) The student will select equipment and instruments used to give medications*.					
12D, 12H					
<ul> <li>12(A) The student will identify the anatomy of the digestive system of ruminant and non-ruminant animals.</li> <li>12(B) The student will describe the process of digestion in ruminant and non-ruminant animals.</li> <li>12(C) The student will identify types and sources of nutrients and classes of feeds*.</li> <li>12(D) The student will identify feed additives and describe how additives affect the food supply.</li> <li>12(E) The student will evaluate animal dietary needs and feeding factors.</li> <li>12(F) The student will calculate energy requirements and formulate rations.</li> <li>12(G) The student will discuss feeding practices and feed-quality issues.</li> <li>12(H) The student will analyze the quality of commercially prepared feeds.</li> </ul>					
9E, 9F,					
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Grading	Animal Management, Final Review/Exam	29 Days	6A, 6B, 6C, 6D	
Grading Period 6 <mark>29 Days</mark>	<ul> <li>6(A) The student will identify a variety of animal species such as companion, exotic, and large animal species according to common breed characteristics.</li> <li>6(B) The student will recognize common animal behavioral problems within companion, exotic, and large animals per industry standard.</li> <li>6(C) The student will identify correct handling protocols and discuss their relevance to veterinary medical staff*.</li> <li>6(D) The student will demonstrate appropriate methods of handling a variety of animal behaviors*.</li> </ul>			

\*TEKs associated with certification-based skills.