Science

Course: Biology			Designated Six Weeks: Sixth Six Weeks		
Unit: Animals/Biochemistry			Days to teach: 13 Days		
TEKS/Prerequisites	**Guiding Questions/ Specificity**	**Assessment**	**Vocabulary**	**Instructional Strategies/ELPS**	**Resources/ Weblinks**
Unit Topic: Animals and Animal System Interaction					Days to Teach: 7 Days
10A: Describe the interactions that occur among systems that perform the functions of regulation, nutrient absorption, reproduction and defense from injury and illness in animals. ***(EOC Readiness Standard)*** F. Systems and Homeostasis 2. Describe, compare, and contrast structures and processes that allow gas exchange, nutrient uptake and processing, waste excretion, nervous and hormonal regulation, and reproduction in plants, animals, and fungi; give examples of each. ***(College and Career Readiness Standards)***	How does the digestive system affect excretory system? How does the circulatory system affect the immune system? How do the various systems interact with one another?	Describe the interactions between the circulatory system and two other systems.	**Students are expected to know the following vocabulary terms:** Comparative anatomy, organ, tissue, organ system, circulatory, excretory, reproductive, nervous, respiratory, digestive, endocrine, integumentary, immune.	Activities: Skeleton and Organ Construction ELPS/Strategies http://ritter.tea.state.tx.us/rules/tac/chapter074/ch074a.html 4F Accountable 2I Instructional Conversation	Text: Biology, Holt, 2004 Frog Lab: Alternative to Frog Dissection http://www.biologycorner.com/frog/index.html United Streaming Video: Just the Facts: The Human Body: Major Systems and Organs (50:00) United Streaming Video: World's Best: All American Animals Safari Montage Video: Incredible Human Machine (96:00) Safari Montage Video: Body Systems (24:23)
11A: Describe the role of internal feedback mechanism in the maintenance of homeostasis. ***(EOC Supporting Standard)*** F. Systems and Homeostasis 1. Know that organisms possess various structures and process (feedback loops) that maintain steady internal conditions. ***(College and Career Readiness Standards)***	How do scientists use observations to learn about animal behavior in response to stimuli?	Describe and illustrate the process of homeostasis?	**Students are expected to know the vocabulary terms:** Stimulus, response, taxis, social insects, termites, pheromone, Basal Metabolic Index (BMI), Basal Metabolic Rate (BMR), calorie, saturated fat, unsaturated fat, simple sugar, complex sugar, carbohydrate, protein, aerobic exercise, anaerobic exercise	ELPS/Strategies http://ritter.tea.state.tx.us/rules/tac/chapter074/ch074a.html 4F Accountable 2I Instructional Conversation	Safari Montage Video: Incredible Human Machine (96:00)

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Unit Topic: Biochemistry					Days to Teach: 6 Days
Teacher notes: Following the EOC, the curriculum will address various biochemistry topics and review basic concepts as they relate to the periodic table.	What elements are found in photosynthesis? What elements are found in multivitamin? In plant food? What is their purpose? Where are these elements located on the periodic table? What are similarities and differences among the elements?	How are elements abbreviated? How are elements organized on the periodic table? What is the basic trend of atomic size as you proceed across a period or down a group?	Periodic Table Metals Non-Metals Metalloids	Teacher Notes: Teachers will design the project during a district-wide meeting.	Centrum for Kids Product Label: http://www.centrum.com/OurProducts/Kids.aspx One-A-Day Product Label http://oneaday.com/teen_advantage.html Fertilizer Ingredients http://www.ehow.com/list_6912851_scotts-fertilizer-ingredients.html The Periodic Table with Element Information http://www.webelements.com/