

Course: Pre-AP Biology			Designated Six Weeks: Sixth Six Weeks		
Unit: Animals			Days to teach: 13 Days		
TEKS/Prerequisites	Guiding Questions/ Specificity	Assessment	Vocabulary	Instructional Strategies/ELPS	Resources/ Weblinks

Topic/unit: Animals and animal system interaction				Days to teach: 7 Days	
<p>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. <i>(EOC Readiness Standard)</i></p> <p>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. <i>(College and Career Readiness Standards)</i></p>	<p>How does the digestive system affect excretory system?</p> <p>How does the circulatory system affect the immune system?</p> <p>How do the various systems interact with one another?</p>	<p>Describe the interactions between the circulatory system and two other systems.</p>	<p>Comparative anatomy, organ, tissue, organ system, circulatory, excretory, reproductive, nervous, respiratory, digestive, endocrine, integumentary, immune.</p>	<p><u>Activities:</u> Skeleton and Organ Construction</p> <p>Virtual pig dissection http://www.whitman.edu/content/virtualpig</p> <p><u>ELPS/Strategies</u> http://ritter.tea.state.tx.us/rules/tac/chapter074/ch074a.html</p> <p>4F Accountable 2I Instructional Conversation</p>	<p>Text: <u>Biology</u>, Holt, 2004</p> <p>Frog Lab: Alternative to Frog Dissection http://www.biologycorner.com/frog/index.html</p> <p>Fetal pig dissection United Streaming Video: Just the Facts: The Human Body: Major Systems and Organs (50:00)</p> <p>United Streaming Video: World's Best: All American Animals</p> <p>Safari Montage Video: Incredible Human Machine (96:00)</p> <p>Safari Montage Video: Body Systems (24:23)</p>

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<p>11A: Describe the role of internal feedback mechanism in the maintenance of homeostasis. <i>(EOC Supporting Standard)</i></p> <p>F. Systems and Homeostasis 1. Know that organisms possess various structures and process (feedback loops) that maintain steady internal conditions. <i>(College and Career Readiness Standards)</i></p>	<p>How do scientists use observations to learn about animal behavior in response to stimuli?</p>	<p>Describe and illustrate the process of homeostasis?</p>	<p>Stimulus, response, taxis, social insects, termites, pheromone,</p>	<p><u>ELPS/Strategies</u> http://ritter.tea.state.tx.us/rules/tac/chapter074/ch074a.html 4F Accountable 2I Instructional Conversation</p>	<p>Safari Montage Video: Incredible Human Machine (96:00)</p>
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Topic/Unit: Biochemistry				Days to teach: 6 Days	
<p>Teacher notes: Following the EOC, curriculum will address the chemistry of biology topics and review general chemistry terms</p>	<p>What elements are found in photosynthesis?</p> <p>What elements are found in multivitamins? In plant food? What is their purpose?</p> <p>Where are these elements located on the periodic table?</p> <p>What are the similarities and differences among these elements?</p>	<p>How are elements abbreviated?</p> <p>What trends exist among the groups and families found on the periodic table?</p>	<p>Periodic Table</p> <p>Metals</p> <p>Non-Metals</p> <p>Metalloids</p>	<p>Teacher Notes: Teachers will design the project during a district-wide meeting.</p>	<p>Possible website resources include:</p> <p>Centrum for Kids Product Label http://www.centrum.com/OurProducts/Kids.aspx</p> <p>One-A-Day Product Label http://www.oneaday.com/teen_advantage.html#ingredients_1</p>