

**AP Biology
Student Learning Plan
Animal Systems Unit 12 - 14 Days**

Student Learning Plan – Animal Form and Function

Day/Date	Topic/Objectives	Support
Day 1	Circulatory system Learning Objectives Chapter 50 <ol style="list-style-type: none"> 1. the major structures of the circulatory system: arteries, veins, capillaries, heart chambers, and the route of mammalian circulation. 2. how the major circulatory vessels illustrate the relationship between structure and function. 3. how red blood cells illustrate the relationship between structure and function. 4. how oxygen and carbon dioxide are transported in the blood. 	hw obj for 50
Day 2	<input type="checkbox"/> Lab 10	
Day 3	<input type="checkbox"/> Gas exchange <input type="checkbox"/> the pathway of a carbon dioxide molecule as it goes from a human muscle cell (Krebs cycle) until it is exhaled. <input type="checkbox"/> the adaptation provided by the countercurrent flow exchange in fish gills. <input type="checkbox"/>	hw obj for 49
Day 4	<input type="checkbox"/> Respiratory system Learning Objectives Chapter 49 <ul style="list-style-type: none"> <input type="checkbox"/> the characteristics of respiratory surfaces. <input type="checkbox"/> the structure of the human respiratory system. <input type="checkbox"/> the general characteristics of how oxygen and carbon dioxide are transported in the blood. <input type="checkbox"/> the need for a gas transport protein 	

	<p>molecule such as hemoglobin.</p> <ul style="list-style-type: none"> <input type="checkbox"/> the pathway of an oxygen molecule as it goes from the air inhaled through to its delivery to a human muscle cell. <input type="checkbox"/> 	
Day 5	<ul style="list-style-type: none"> <input type="checkbox"/> Skeletal system 	hw obj for 47
Day 6	<ul style="list-style-type: none"> <input type="checkbox"/> Muscles and contraction <p>Learning Objectives Chapter 47</p> <ul style="list-style-type: none"> <input type="checkbox"/> the sliding filament mechanism of muscle contraction. <input type="checkbox"/> the role of ATP in muscle contraction. <input type="checkbox"/> the role of calcium in muscle contraction. <input type="checkbox"/> 	
Day 7	<ul style="list-style-type: none"> <input type="checkbox"/> Regulation 	hw obj for 46
Day 8	<ul style="list-style-type: none"> <input type="checkbox"/> Hormones <p>Learning Objectives Chapter 46</p> <ul style="list-style-type: none"> <input type="checkbox"/> the different action on target cells of fat-soluble and water-soluble hormones. <input type="checkbox"/> representative examples of the function of hormones <input type="checkbox"/> trigger for secretion, where hormone is secreted, target cells, hormone action, and regulation. <input type="checkbox"/> blood sugar level (insulin and glucagon), blood osmolarity (ADH), blood calcium level (PTH and calcitonin), metabolism (TSH and thyroxine), and menstruation (estrogen, FSH, LH, progesterone). <input type="checkbox"/> how negative feedback works to regulate homeostasis and some examples. <input type="checkbox"/> how positive feedback works to regulate homeostasis and some examples. <input type="checkbox"/> 	
Day 9	<ul style="list-style-type: none"> <input type="checkbox"/> 	

Day 10	<input type="checkbox"/>	
Day 11	<input type="checkbox"/>	
Day 12	<input type="checkbox"/>	
Day 13	<input type="checkbox"/> review	
Day 14	<input type="checkbox"/> test – Human Systems	