

Quarter	Essential Skills	Strategies & Activities	CC Standards	Assessments
2	<p>A. Chapter 6 - "Skin and the Integumentary System" (2 weeks)</p> <ol style="list-style-type: none"> 1. Describe the four major types of membranes 2. Describe the structure of the skin and its functions 3. Describe the accessory organs of skin 4. Explain how the skin aids in regulation of body temperature <p>B. Chapter 7 - "Skeletal System" (2 weeks)</p> <ol style="list-style-type: none"> 1. Describe the general structure of a bone 2. Distinguish between intramembranous & endochondral ossification 3. Discuss the major functions of bones 4. Distinguish between axial & appendicular skeletons 5. Locate and identify the bones 6. List and describe the 3 classes of joints and give examples of each <p>C. Chapter 8 - "Joints" (1 week)</p> <ol style="list-style-type: none"> 1. Describe the general structure of a synovial joint 2. Distinguish between the different types of joints based on structure and joint movement <p>D. Chapter 9 - "Muscular System" (2 weeks)</p> <ol style="list-style-type: none"> 1. Describe the structure of a skeletal muscle fiber 2. Explain how a muscle fiber contraction occurs 3. Distinguish between a twitch and a sustained contraction 4. Distinguish between the structures and functions of smooth muscle 5. Compare the contraction mechanism of skeletal & cardiac muscle fibers 6. Describe the locations and actions of the major skeletal muscles <p>E. Chapter 10-12 - "Nervous System I, II & III"</p> <ol style="list-style-type: none"> 1. Explain the general functions of the nervous system 2. Describe the general structure of a neuron 3. Explain how information passes from one neuron to another 4. Compare and contrast the major functions and parts of the nervous system, including the central, peripheral, & autonomic nervous systems 5. Name five kinds of skin receptors and explain their functions 6. Describe the somatic senses: smell, taste, hearing, sight, and touch 	<ol style="list-style-type: none"> 1. Skin Receptors Lab 2. Presentation & Discussion <ol style="list-style-type: none"> 1.. Presentation & Discussion <ol style="list-style-type: none"> 1. Presentation & Discussion <ol style="list-style-type: none"> 1. Presentation & Discussion <ol style="list-style-type: none"> 1. Presentation & Discussion 2. Nervous System Lab 3. Special Senses Lab 	<p>HS-LS1-3</p> <p>HS-LS1-2, 3</p> <p>HS-LS1-2</p> <p>HS-LS1-2, 3</p> <p>HS-LS1-2, 3</p>	<p>Ch 6 Lab, Quizzes, Homework & Test</p> <p>Ch 7 Quizzes, Homework & Test</p> <p>Ch 8 Quizzes, Homework & Test</p> <p>Ch 9 Quizzes, Homework & Test</p> <p>Ch 10-12 Labs, Quizzes, Homework & Test</p>

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3	<p>A. Cat Dissection (6 1/2 -8 weeks)</p> <p>Study the external anatomy of the cat</p> <p>Locate the major muscles</p> <p>Locate the major organs of the digestive, respiratory, reproductive and urinary systems and describe their functions</p> <p>B. Chapter 13 - "Endocrine System" (1 week)</p> <ol style="list-style-type: none"> 1. Distinguish between endocrine glands and exocrine glands 2. Name and describe the location of the major endocrine glands, and list the hormones that they secrete <p>C. Chapter 14 "Blood" (1.5 weeks)</p> <ol style="list-style-type: none"> 1. Describe the general characteristics of blood and discuss its major functions 2. Distinguish among the types of blood cells and their functions 3. Define hemostasis and explain the mechanisms that help achieve it 4. Explain blood typing and how it is used to avoid adverse reactions following transfusions 	<ol style="list-style-type: none"> 1. Cat dissection lab 2. Presentation & Discussion <ol style="list-style-type: none"> 1. Presentation & Discussion <ol style="list-style-type: none"> 1. Simulated Blood Typing Lab 2. Presentation & Discussion 	<p>HS-LS1-2</p> <p>HS-LS1-2, 3</p> <p>HS-LS1-2,3</p>	<p>Cat Dissection Practical & Written Quizzes & Tests</p> <p>Ch 13 Quizzes, Homework & Test</p> <p>Ch 14 Lab, Quizzes, Homework & Test</p>

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4	<p>A. Chapter 15 "Cardiovascular System" (1.5 weeks)</p> <ol style="list-style-type: none"> 1. Describe the structure and function of the heart 2. Discuss the cardiac cycle, including an ECG pattern, and explain how it is controlled 3. Compare and contrast the three major types of blood vessels 4. Describe the flow of blood through the heart and the body <p>B. Chapter 16 - "Lymphatic System & Immunity" (1 week)</p> <ol style="list-style-type: none"> 1. Describe the structure and function of the lymphatic organs 2. Compare and contrast nonspecific and specific immune defenses <p>C. Chapter 17 & 18 - "Digestive System" (2 weeks)</p> <ol style="list-style-type: none"> 1. Describe the general functions of the digestive system 2. Name and describe the locations and major parts of the digestive organs 3. List the major nutrients, including carbohydrates, lipids, proteins, and vitamins and minerals and describe how cells use these nutrients <p>D. Chapter 19 - "Respiratory System" (1.5 weeks)</p> <ol style="list-style-type: none"> 1. List the general functions of the respiratory system and the organs 2. Explain the mechanisms of inspiration and expiration <p>E. Chapter 20 - "Urinary System" (1.5 weeks)</p> <ol style="list-style-type: none"> 1. Name and list the functions of the organs of the urinary system 2. Describe a nephron, and explain the functions of its major parts 3. Explain the process of urine formation 	<ol style="list-style-type: none"> 1. Blood Pressure & Pulse Lab 2. Presentation & Discussion <ol style="list-style-type: none"> 1. Presentation & Discussion <ol style="list-style-type: none"> 1. Digestive Enzymes Lab 2. Presentation & Discussion <ol style="list-style-type: none"> 1. Spirometer Lab 2. Presentation & Discussion <ol style="list-style-type: none"> 1. Simulated Urinalysis Lab 2. Presentation & Discussion 	<p>HS-LS1-2, 3</p> <p>HS-LS1-2, 3</p> <p>HS-LS1-2, 3, 6, 7</p> <p>HS-LS1-2, 3</p> <p>HS-LS1-2, 3</p>	<p>Ch 15 Lab, Quizzes, Homework & Test</p> <p>Ch 16 Lab, Quizzes, Homework & Test</p> <p>Ch 17 & 18 Lab, Quizzes, Homework & Test</p> <p>Ch 19 Lab, Quizzes, Homework & Test</p> <p>Ch 20 Lab, Quizzes, Homework & Test</p>