

**VAN BUREN SCHOOL DISTRICT/VAN BUREN HIGH SCHOOL  
ANATOMICAL DESIGN CURRICULUM 2006-2007**

# of Days	CHAPTER	TOPIC	SUB-TOPICS	LABS	FRAMEWORKS	ACT, SAT Testing Correlation
1	Handout	Art Design		Color Wheel		
7	3	The Cell	Size and Shape Composition Structure Function/ Transport	Acrylic Cell with organelles made of clay	<p>APC.3.AP.1 Explain the structure and function of the <i>plasma membrane</i></p> <p>APC.3.AP.2 Compare and contrast the different ways in which substances cross the <i>plasma membrane</i>:</p> <ul style="list-style-type: none"> <li>• <i>diffusion and osmosis</i></li> <li>• <i>facilitated diffusion</i></li> <li>• <i>active transport</i></li> <li>• <i>filtration</i></li> <li>• <i>endocytosis</i></li> <li>• <i>exocytosis</i></li> </ul> <p>APC.3.AP.3 Describe the structure and function of <i>organelles</i> and cell parts</p> <p>APC.3.AP.4 Identify chemical substances produced by cells</p>	
5	3	Histology	Epithelial Connective Muscle Nervous	Photograph Histology slides at Westark	<p>T.4.AP.1 Describe the structure, location, and function of each <i>tissue</i> category:</p> <ul style="list-style-type: none"> <li>• <i>epithelial</i></li> <li>• <i>connective</i></li> <li>• <i>nervous</i></li> <li>• <i>muscle</i></li> </ul>	
7	4	Integument	Structure Epidermis, Dermis Appendages Glands	Carve the Skin Layers from Balsa Foam	<p>BS.5.AP.1 Identify the components of the <i>integumentary system</i></p> <p>BS.5.AP.3 Identify the macroscopic and microscopic structure of</p>	

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					the <i>integumentary system</i> BS.5.AP.4 Describe disorders associated with the <i>integumentary system</i>	
8	5	Skeletal	Functions Microscopic Structure Divisions of Skeleton Joints	Ceramic Skull with Bones Outlined	BS.6.AP.1 Identify the components the <i>skeletal system</i> BS.6.AP.3 Identify the macroscopic and microscopic structure of bone BS.6.AP.4 Describe disorders associated with the <i>skeletal system</i>	
8	6	Muscular	Types of Muscles Functions Movement Posture Disorders	Life Sized Drawings of the Muscle Groups, Flexed and Extended	BS.7.AP.1 Identify the components the <i>muscular system</i> BS.7.AP.2 Discuss the physiological mechanisms of the <i>muscular system</i> BS.7.AP.3 Identify the macroscopic, microscopic, and molecular structure of muscle BS.7.AP.4 Describe disorders associated with the <i>muscular system</i>	
8	7-8	Nervous	Organs and Divisions Cells Impulses Spinal Nerves Sense Organs	Paper Mache Brain with the Sensory Regions Color Coded	BS.8.AP.1 Identify the components the <i>nervous system</i> BS.8.AP.3 Identify the macroscopic, microscopic, and molecular structure of the <i>nervous system</i> BS.8.AP.4 Describe disorders associated with	

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					<i>the nervous system</i>	
5	9	Endocrine	Functions Organs and Glands Male and Female differences	Water Color Drawing of the Endocrine System	BS.9.AP.1 Identify the components of the <i>endocrine system</i> BS.9.AP.3 Identify the macroscopic, microscopic, and molecular structure of the <i>endocrine system</i> BS.9.AP.4 Describe disorders associated with the <i>endocrine system</i>	
8	16	Reproductive	Male and Female Structure, Function Female Cycles and Pregnancy Meiosis	Stages in Meiosis or Prenatal Development	APC.3.AP.6 Differentiate between <i>mitosis</i> and <i>meiosis</i> BS.15.AP.1 Describe the components and the organization of the <i>reproductive system</i> BS.15.AP.2 Discuss the physiological mechanisms of the <i>reproductive system</i>	
7	14	Digestive	Structure Function`	Drawings or Clay Models from Specimen Dissections	BS.13.AP.1 Identify the components the <i>digestive system</i> BS.13.AP.4 Describe disorders associated with the <i>digestive system</i>	
7	13	Respiratory	Structure Function	Instructional Video on the Dangers of Tobacco	BS.12.AP.1 Identify the components of the <i>respiratory system</i> BS.12.AP.2 Discuss the physiological mechanisms of the <i>respiratory system</i> BS.12.AP.3 Identify the macroscopic, microscopic, and molecular structure of	

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					<i>the respiratory system</i>	
7	10-11	Circulation	Heart Blood Vessels Circulation Blood Pressure	Carve a Heart from clay	BS.10.AP.1 Identify the components of the <i>cardiovascular system</i> BS.10.AP.3 Identify the macroscopic, microscopic, and molecular structure of the <i>cardiovascular system</i>	
7	15	Urinary	Structure Function	Personal Choice of Mediums to Illustrate this System	<i>BS.14.AP.1</i> Identify the components the <i>urinary system</i> <i>BS.14.AP.2</i> Discuss the physiological mechanisms of the <i>urinary system</i> <i>BS.14.AP.3</i> Identify the macroscopic, microscopic, and molecular structure of the <i>urinary system</i>	