Subject/Topic: BCC Bio 101 Unit#: Month:

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Standards	Unit/Topic	Essential Knowledge: What do students absolutely need for the next level?	Resources Used	Assessment
	Body Orientation terms	SSBAT to communicate effectively about the body using orientation terminology.  SSBAT locate parts of the body when give the appropriate orientation terms.	Guided notes Lab #2	Body orientation quiz Lab #2
	Unit 1 Biochemistry	SSBAT to determine the polymer when given the monomers for the four organic molecules(proteins, carbohydrates, lipids, and nucleic acids.  SSBAT determine the monomers when given the polymer.  SSBAT define dehydration synthesis and hydrolysis.  SSBAT draw	Guided notes-much of this information is review from biology.	Exam 1 Biochemistry/ Cell exam
		and label all the		

	components of a lock-and-key model.		
	SSBAT identify the four factors that affect enzyme activity.		
Unit 2/Cells	SSBAT recognize organelles within a cell.	Guided notes  3D Cell Project Lab#5 reference	Exam 1 Biochemistry/ Cells
	SSBAT explain the function of each organelle.	only	Organelle function quiz
	SSBAT compare mitosis and meiosis.	Cell organelle ws	
Unit 3 Cell/Tissue  A.Identification	SSBAT identify the type of cell they are looking at on the microscope slide.	Guided notes Fill-in study guide Lab #7 and	Cell/Tissue Test
	SSBAT identify where this type of cell is located in the body.	8-reference only	
	SSBAT explain the functions of these types of cells within the body.		
B.Bones	SSBAT identify individual bones and skull sutures by name(correct spelling is required).	Bone diagrams: -hand -foot -Skull -appendicular skeleton -axial skeleton	Bone diagram quizzes  Bone identification test

	SSBAT identify where specific bones would be located in the body.	Lab #14and 15-reference only	
	SSBAT identify the structure of a bone.	Guided notes	Exam 2 Bone/Muscle
	SSBAT explain how a bone grows in length and diameter.	Lab #13 Guided notes	Essay Exam Lab #13
	SSBAT define osteoporosis, identify the risk factors.	Guided notes	
	SSBAT explain the function of osteoclasts and osteoblasts and the protective effects of estrogen.	Guided notes	
	SSBAT list ways to prevent osteoporosis.	Guided notes/research	
C. Muscles	SSBAT identify muscles and major muscle groups by correct scientific name(spelling counts)	Muscle diagrams lab#18,19,20,21 reference only	Muscle identification test
	SSBAT identify the anatomy of a muscle from a macro to microscopic level.	Guided notes  Lab#17	Exam 2 Bone/Muscle Essay Exam Lab #17

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	SSBAT explain(essay) how a muscle contracts and relaxes.  SSBAT explain(essay) how and why rigor mortis	Guided notes Lab#22 Guided notes	Lab #22
Unit 3/Nervous System	SSBAT identify major parts of the brain.	Guided notes	Exam #3 Nervous System
	SSBAT explain the functions of the major parts of the brain.	Lab#25	Lab#25
	SSBAT identify the structures of an axon.	Guided notes Lab#23	Lab #23
	SSBAT explain how a nerve impulse occurs.(essay)	Guided notes	
	SSBAT explain how synapse occurs.(essay)	Guided notes Lab #10	Lab #10
	SSBAT explain how drugs affect the synapse and can lead to chemical addiction, withdrawl symptoms and overdose(essay)	Guided notes	
Unit 4 Body Systems -Digestive	SSBAT identify the organs of the digestive	Guided notes Lab #41/42	Exam 4 Human Body Systems

	system.		Lab #41
	SSBAT hypothesize why we do not digest our own intestines.		
Circulatory	SSBAT identify the structures of the circulatory system.	Guided notes Lab#35,36 reference only	
	SSBAT identify what each section of a normal ECG means.	Lab#37	Lab#37
	SSBAT explain how and why the circulatory functions.		
Respiratory	SSBAT identify the structures of the respiratory system.	Guided notes Lab #39	Lab#39
	SSBAT explain breathing as a negative feedback mechanism (essay)	Guided notes	
	SSBAT explain how the circulatory and respiratory systems function together.	Discussion	
Excretory	SSBAT identify the organs of the excretory system.	Guided notes Lab #43/44 reference only	
	SSBAT explain the process of		

	urine formation. (essay)		
	SSBAT list in order the pathway of urine through the urinary system.		
Integumentary (skin)	SSBAT identify the parts of the skin.	Guided notes  Skin model discussion	
	SSBAT explain why acne is a frequent occurrence for teenagers based on how the skin functions.	Lab #11	Lab #11
Endocrine	SSBAT identify the endocrine organs, the hormones they produce, and their functions.	Guided notes Endocrine chart Lab #33	Lab#33
Reproductive	SSBAT identify the male and female structures of the reproductive system.	Guided notes Lab #45 reference only	
	SSBAT explain the functions of the reproductive structures.		
	SSBAT explain the menstrual cycle as a negative feedback mechanism. (essay)		