Name:		Grading Quarter:	Week Beginning:		
Kristoffer Van Atten		Q1	9/4/2023	/4/2023	
School Year: 23-24			Subject: AP Biology		
Monday	Notes:	Objective: No School Academic Lesson Overview: Some students may still think there is school and show Standards: up. That is a lesson unto itself			
Tuesday	Notes:	Objective: SWBAT lead to changes in • SYI-1.C.1 structure a a Nu ha the sy gre bo b DN str nu hy nu c Pr by ter d Pr se an be d Pr se an be d fr se an be c se an be d fr fr se se an be fr se an be d fr se an be fr fr fr fr fr fr fr fr fr fr fr fr fr	Explain how a change in the subunits of a polymer may structure or function of the macromolecule. Directionality of the subcomponents influences and function of the polymer – ucleic acids have a linear sequence of nucleotides that we ends, defined by the 3' hydroxyl and 5' phosphates of e sugar in the nucleotide. During DNA and RNA nthesis, nucleotides are added to the 3' end of the owing strand, resulting in the formation of a covalent and between the nucleotides. NA is structured as an antiparallel double helix, with each rand running in opposite 5' to 3' orientation. Adenine icleotides pair with thymine nucleotides via two "drogen bonds. Cytosine nucleotides pair with guanine icleotides by three hydrogen bonds. "oteins comprise linear chains of amino acids, connecting " the formation of covalent bonds at the carboxyl rminus of the growing peptide chain. "oteins have primary structure determined by the quence order of their constituent amino acids, condary structure that arises through local folding of the nino acid chain into elements such as alpha-helices and eta-sheets, tertiary structure that arises from teractions between multiple polypeptide units. The four ements of protein structure determine the function of a otein. mprise liner4 chains of sugar monomers connected by arbohydrate polymers may be linear or branched. Students take notes in their interactive notebooks and		Academic Standards: SYI- 1.C.1

	Notes:	Objective: Explain how a change in the subunits of a polymer may lead to	Academic
		changes in structure or function of the macromolecule.	Standards: SYI-
		 SYI-1.C.1 Directionality of the subcomponents influences 	1.C.1
		structure and function of the polymer –	_
		a Nucleic acids have a linear sequence of nucleotides that	
		have ends, defined by the 3' hydroxyl and 5' phosphates of	
		the sugar in the nucleotide. During DNA and RNA	
		synthesis, nucleotides are added to the 3' end of the	
		growing strand, resulting in the formation of a covalent	
		bond between the nucleotides.	
		b DNA is structured as an antiparallel double helix, with each	
		strand running in opposite 5' to 3' orientation. Adenine	
		nucleotides pair with thymine nucleotides via two	
		hydrogen bonds. Cytosine nucleotides pair with guanine	
<		nucleotides by three hydrogen bonds.	
<e< td=""><td></td><td>c Proteins comprise linear chains of amino acids, connecting</td><td></td></e<>		c Proteins comprise linear chains of amino acids, connecting	
dnesday		by the formation of covalent bonds at the carboxyl	
		terminus of the growing peptide chain.	
		d Proteins have primary structure determined by the	
		sequence order of their constituent amino acids,	
		secondary structure that arises through local folding of the	
		amino acid chain into elements such as alpha-helices and	
		beta-sheets, tertiary structure that is the overall three-	
		dimensional shape of the protein and often minimizes free	
		energy, and quaternary structure that arises from	
		interactions between multiple polypeptide units. The four	
		elements of protein structure determine the function of a	
		protein.	
		Carbohydrates comprise liner4 chains of sugar monomers connected by	
		covalent bonds. Carbohydrate polymers may be linear or branched.	
		Lesson Overview: Students take notes in their interactive notebooks and	
		do activities based on the content.	

Thursday	Notes:	 Objective: SWBAT Describe the structural similarities and differences between DNA and RNA. IST-1.A.1 DNA and RNA molecules have structural similarities and differences related to their function – a Both DNA and RNA have three components – sugar, a phosphate group, and a nitrogenous base – that form nucleotide units that are connected by covalent bonds to form a linear molecule with 5' and 3' ends, with the nitrogenous bases perpendicular to the sugar-phosphate backbone. b The basic structural differences between DNA and RNA include the following: i DNA contains deoxyribose and RNA contains ribose. ii RNA contains uracil and DNA contains thymine. iii DNA is usually double stranded; RNA is usually single stranded. The two DNA strands in double-stranded DNA are antiparallel in directionality Lesson Overview: Students take notes in their interactive notebooks and do activities based on the content. 	Academic Standards: IST-1.A
Friday	Notes:	Objective:. SWBAT complete an assessment on the objectives from unit 1 with 80% accuracy or above Lesson Overview: Students complete a progress check on Unit 1 objectives.	Academic Standards: All Unit 1 Standards