

ARC Week at Glance: Biology (Ms. West)

Topic: Structure and Function of Molecular Genetics - Unit 3B **Course:** Biology

Grade: 10

Dates: Jan 21 - 24

	Learning Target (I am learning about...)	Criteria for Success (I can...)	Activation/ Instruction	Collaboration/ Guided Practice	Independent Learning/ Assessment
			<i>(Include at least one/two formatives*in any part of the lesson as needed)</i>		
Monday			Math Monday Do Now – Calculations/Data Analysis Practice	Holiday	
Tuesday	I am learning about transcription and translation	I can <ul style="list-style-type: none"> • Transcribe DNA into mRNA • Translate mRNA into amino acid sequence • Distinguish between transcription and translation 	Test Prep Tuesday Do Now – CER writing	Final work period to complete any remaining Protein synthesis Gizmo Work Transcription and Translation Practice – coding sequences starting from DNA, mRNA, or tRNA *Potential for asynchronous learning day – see Canvas announcements for modified directions if so	TOTD: 12 sequence codes assessment check

Wednesday	I am learning about mutations and genetic variation	I can <ul style="list-style-type: none"> Replicate, transcribe, and translate sequences Identify types of mutations: deletion, insertion, point, frameshift Predict impacts of mutations Explain how mutations lead to genetic variation Describe the point mutation that leads to sickle cell anemia 	WIS WIM Wednesday – summarizing information & writing questions	Mutations practice sheet – transcribing, translating, and identifying mutations *Potential for asynchronous learning day – see Canvas announcements for modified directions if so	Formative Assessment Check – Question writing about genetic code
Thursday	I am demonstrating understanding of DNA, mRNA, and tRNA	I can <ul style="list-style-type: none"> Answer MCQs to show mastery content of the processes of replication, transcription, and translation 	Throwback Thursday Do Now: Multiple Choice Question with Justification Writing	N/A – Unit 3B Midpoint Assessment	Unit 3B Midpoint Assessment – Progress Learning MCQ test
Friday	I am learning about biotechnology	I can <ul style="list-style-type: none"> Explain biotechnology techniques Evaluate the pros and cons of the various biotechnology techniques 	FRQ Friday Do Now: Free Response Question Answer Construction & Revision Mutations Amoeba sisters video clip	Intro to biotechnology Graphic Organizer: PCR, Electrophoresis, Cloning, Genetic Modification, Gene Transfer, Stem Cell Therapy	TOTD: If I were a biotech company I would writing prompt

Literacy Tasks

Minor Assessment

Major Assessment