

ARC Week at Glance: Biology (Ms. West)

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

Grade: 10 **Dates:** Jan 27 - 31

	Learning Target (I am learning about...)	Criteria for Success (I can...)	Activation/ Instruction	Collaboration/ Guided Practice	Independent Learning/ Assessment
(Include at least one/two formatives*in any part of the lesson as needed)					
Monday	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 	Math Monday Do Now – Calculations/Data Analysis Practice Intro to mutations	Mutations Nearpod if not completed during LFH Friday Mutations practice sheet – transcribing, translating, and identifying mutations	TOTD: transcription translation assessment check DNA RNA Protein Practice Set – Quizziz/Kahoot/Blooket Self-Assessment for Tuesday’s Test

Tuesday	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 	Test Prep Tuesday Do Now – CER writing	N/A – Unit 3B Midpoint Assessment	Unit 3B Midpoint Assessment – Progress Learning MCQ test
Wednesday	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 	WIS WIM Wednesday – summarizing information & writing questions	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
Thursday	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 	Throwback Thursday Do Now: Multiple Choice Question with Justification Writing	Intro to biotechnology Graphic Organizer: PCR, Electrophoresis, Cloning, Genetic Modification, Gene Transfer, Stem Cell Therapy	TOTD: pros and cons of biotech companies turn and talk

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	Gel Electrophoresis Modeling Lab – Case of the Stolen Jewels	Lab Conclusions TOTD
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Literacy Tasks

Minor Assessment

Major Assessment