ARC Week at Glance: Biology (Ms. West)

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

Grade: 10 Dates: Jan 13 - 17

	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 the structure of DNA	I can • Follow a procedure to isolate DNA from a fruit • Describe the structure of DNA • Write a CER to summarize our class data findings	Math Monday Do Now – Calculations/Data Analysis Practice	Digging for DNA Lab – DNA isolation from fruits Give students option of fruit Compare class findings	TOTD: CER Lab Conclusion/Lab Assessment Check
Tuesday	I am learning about transcription and translation	I can • State the cellular locations of transcription and translation • State the starting and ending materials of transcription and translation • Explain the relationship between DNA and mRNA • Explain the relationship between mRNA and tRNA	Test Prep Tuesday Do Now – CER writing Review Leading vs Lagging Strand DNA replication	Guided Sketch Notes Cellular Events of Transcription and Translation	Central Dogma Assessment Check TOTD

Wednesday	I am learning about transcription and translation	I can • State the cellular locations of transcription and translation • State the starting and ending materials of transcription and translation • Explain the relationship between DNA and mRNA • Explain the relationship between mRNA and tRNA	WIS WIM Wednesday – summarizing information & writing questions	Protein Synthesis Gizmo	TOTD: 2 things learned from Gizmo work today, 1 question you have about the case
Thursday	I am learning about transcription and translation	I can • Explain the relationship between DNA and mRNA • Explain the relationship between mRNA and tRNA • Explain the relationship between codons and anticodons	Throwback Thursday Do Now: Multiple Choice Question with Justification Writing	Protein Synthesis Gizmo	Protein Synthesis Gizmo Assessment check TOTD

Friday	I am learning about mutations and genetic variation	I can • 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	FRQ Friday Do Now: Free Response Question Answer Construction & Revision Mutations Amoeba sisters video clip	Mutations practice sheet – transcribing, translating, and identifying mutations	Formative Assessment Check – Question writing about genetic code

Literacy Tasks Minor Assessment Major Assessment