ARC Week at Glance: IB Biology Year 2 (Ms. West)

Topic: Unity and Diversity – Molecules **Course:** IB Biology Year 2 **Grade:** 12

Dates: Aug 11-15

Note: For lesson resources, handouts, etc., please see our Canvas Course.

This week's Homework Focus: Kognity Topic A.2.1 & Guided Notes Sheet

	Learning Target (I am learning about)	Criteria for Success (I can)	Activation/ Instruction	Collaboration/ Guided Practice tone/two formatives*in any part	Independent Learning/ Assessment
Monday	I am learning about physical properties of water and the consequences for animals in aquatic habitats	I can Describe the following properties of water: buoyancy, viscosity, thermal conductivity, and specific heat capacity Contrast physical properties of air and water and illustrate the consequences of both for the blackthroated loon and the ringed seal	Math Monday Do Now – Calculations Practice Mini lecture water properties	Jig Saw Activity – aquatic animal and reliance on water properties (black-throated loon and ringed seal) using InThinking Guided Sheets to direct student group thinking and research	Heart Rate CER Lab Assessment Check

Tuesday	I am learning about the origin of water and the necessity of water for extraterrestrial life	I can • Explain the evidence for the origin of water (asteroids, retention to gravity, and low temps to condense water) • Describe the relationship between the search for extraterrestrial life and the	Test Prep Tuesday Do Now – CER Kognity Video Clips – Origins of life on Earth and Goldilocks Zone	Brainstorming Boards – time in between each video clip to brainstorm thoughts, questions, reactions to information presented Quick Research Task: Hypothetical types of biochemistry – non-water solvents	TOTD: Define "life" TOK writing prompt
	Town looming about	 presence of water Explain the idea of the Goldilocks zone 	WIC WIM Do Now	Nu alaia Aaida Quiale	Mid Wale Account
	I am learning about nucleic acids.	I can • Describe the structure of nucleic	WIS WIM Do Now – Summarizing Sentences and	Nucleic Acids Quick Revision Graphic Organizers	Mid-Week Assessment Check – Data Analysis Focus
Wednesday		acids Describe the structure and role of the nucleosome Distinguish between DNA and RNA Describe the universality of the genetic code as evidence of	Question Writing	DNA Isolation Lab – Fruit Inquiry	

Thursday	I am learning about DNA experiments	I can • Describe the Hershey-Chase Experiment and results	Throwback Thursday Do Now – MCQ & Justification Writing International	DNA Experiments Mini Posters & Presentations	DNA Experiments Summaries TOTD IA Topic Proposal Assessment Check
I		• Explain Chargaff's data	Mindedness Focus: Mexico		
Friday	I am learning about LUCA	I can Describe how it is likely that other life forms evolved, but were outcompeted by a last universal common ancestor (LUCA) Outline approaches to estimate the time over which life has been evolving on earth. Outline the evidence that supports the existence of a LUCA	FRQ Friday Do Now - Free Response Answer Construction & Self-Assessment	LUCA – Kognity TimeLine Activity	LUCA TOK TOTD

Literacy Tasks

Minor Assessment

Major Assessment