

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

Topic: Unity and Diversity – Molecules

Course: IB Biology Year 2

Grade: 12

Dates: Aug 12 - 16

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

This week's Homework Focus: Kognity Topic A.1.2 & Guided Notes Sheet

	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	I am learning about physical properties of water and the consequences for animals in aquatic habitats	I can ... <ul style="list-style-type: none"> • 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 black-throated 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 Revisit IA Topic Brainstorming from last week and complete Step 3 – Proposed Topics Due Wednesday	Think Pair Share – loon vs seal formative check

Tuesday	I am learning about the origin of water and the necessity of water for extraterrestrial life	I can ... <ul style="list-style-type: none"> • 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 presence of water • Explain the idea of the Goldilocks zone 	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
Wednesday	I am learning about nucleic acids.	I can ... <ul style="list-style-type: none"> • Describe the structure of nucleic acids • Describe the structure and role of the nucleosome • Distinguish between DNA and RNA • Describe the universality of the genetic code as evidence of common ancestry 	WIS WIM Do Now – Summarizing Sentences and Question Writing	Nucleic Acids Quick Revision Graphic Organizers	Mid-Week Assessment Check – Water focus
Thursday	I am learning about DNA experiments	I can ... <ul style="list-style-type: none"> • Describe the Hershey-Chase Experiment and results • Explain Chargaff’s data 	Throwback Thursday Do Now – MCQ & Justification Writing	DNA Experiments Mini Posters & Presentations	DNA Experiments Summaries TOTD IA Topic Proposal Assessment Check

Friday	I am learning about reviewing for Unit 1A Major Assessment	I can ... <ul style="list-style-type: none"> • Self-assess my understanding of Unit 1A learning targets • Answer MCQ and FRQ questions for Unit 1A • Revise any learning gaps for Unit 1A 	FRQ Friday Do Now – Free Response Answer Construction & Self-Assessment	Unit 1A Learning Target Quick Round Review as table groups	Self-Assess Check to prepare for Monday's Unit 1A Test – Kognity assessment
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Literacy Tasks

Minor Assessment

Major Assessment