

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

Topic: C1 Interaction and Interdependence: Molecules (Subtopics C1.2 Respiration & C1.3 Photosynthesis)

Course: IB Biology Year 2

Grade: 12

Dates: Sept 9-13

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

This week's Homework Focus: Kognity Topic C1.2 & C1.3 Guided Notes Sheets

	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 cellular respiration	I can ... <ul style="list-style-type: none"> • Distinguish between aerobic and anaerobic respiration • Collect and analyze data to construct an appropriate graph Write a conclusion justified by my data set 	Math Monday Do Now – Rate of Respiration Calculation	Muscle Fatigue Lab – Graphing & Conclusion writing Cell Energy Cycle Gizmo – quick review of cellular energetics	Muscle Fatigue Lab Assessment Check

Tuesday	I am planning for my Internal Assessment Investigation	I can ... <ul style="list-style-type: none"> • Write a research question • Identify Control, Dependent, and Independent Variables • Write a hypothesis and justify with background research/reasoning 	Test Prep Tuesday – CER Practice Question (writing claim, evidence, & reasoning)	IA Work Period – using background research to write a research question, identify variables, and write a hypothesis. Peer feedback provided before submitting individual plans Long Covid – Mitochondria & ATP case study (InThinking Resource)	IA work submissions on Canvas
Wednesday	I am learning about glycolysis, ethanal fermentation, and lactic acid fermentation pathways.	I can ... <ul style="list-style-type: none"> • Arrange organize a card sort to explain the processes of glycolysis and fermentation • Explain the inputs and outputs of anaerobic respiration 	WIS WIM Do Now – Summarizing Sentences and Question Writing	Respiration Card Sort (InThinking Activity)	Midweek Assessment Check: C1 (Enzymes & Respiration)
Thursday	I am learning about link reaction, Krebs Cycle, and ETC.	I can ... <ul style="list-style-type: none"> • Investigate factors that affect respiration in yeast and explain results • Outline the events of the Krebs cycle • Answer questions about structure and function of the mitochondrion 	Throwback Thursday Do Now – MCQ & Justification Writing	Yeast Respiration Simulation Data Collection Krebs Cycle Hexagon Task (InThinking) Harvard X animation – ETC Mitochondrion Practice Set – Structure & Function	TOTD: Mitochondrion structure and function summaries

Friday	I am learning about photosynthesis	I can ... <ul style="list-style-type: none"> • Distinguish between light dependent and light independent reactions • Explain the role of photosystems in photosynthesis 	FRQ Friday Do Now – Free Response Answer Construction & Self-Assessment	Photosynthesis Outlines & Graphic Organizers	TOTD: Chloroplast Structure and Function Summaries
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Literacy Tasks

Minor Assessment

Major Assessment