

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

**Topic: C1 Interaction and Interdependence: Molecules (Subtopics C1.1 Enzymes, C1.2 Respiration)**

**Course: IB Biology Year 2**

**Grade: 12**

**Dates: Sept 3 – 6**

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

**This week's Homework Focus:** Kognity Topic C1.1 & C1.2 & 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>		
<b>Monday</b>					
<b>Tuesday</b>	I am conducting background research for my internal assessment topic.	I can ... <ul style="list-style-type: none"><li>• Find 3 credible scientific sources around my Bio IA topic</li><li>• Summarize my research findings</li></ul>			LFH: Bio IA Background Research Assignment – submit on Canvas

<b>Wednesday</b>	I am learning about enzymes.	I can ... <ul style="list-style-type: none"> <li>• Explain how the structure of an enzyme supports its functions</li> <li>• Describe how various factors impact enzyme activity (substrate concentration, temperature, pH, diversity of enzymes)</li> </ul>	WIS WIM Do Now – Summarizing Sentences and Question Writing  Enzyme Quick Review – How enzymes work PDB Video (Inthinking)	Enzyme Collision Theory Simulation Exploration – Investigating effect of substrate concentration and temperature  Enzyme Diversity Simulation Darkow – Investigating various enzymes in various conditions	TOTD: Summary statements of 3 key take-aways from enzyme simulations & data collected
<b>Thursday</b>	I am learning about enzyme inhibition pathways.	I can ... <ul style="list-style-type: none"> <li>• Explain how an enzyme impacts activation energy</li> <li>• Distinguish between various types of enzyme inhibitors</li> </ul>	Throwback Thursday Do Now – MCQ & Justification Writing  Activation Energy Inthinking Sheet – Graph Analysis	Competitive and Noncompetitive Inhibition, Feedback Inhibition, and Mechanism Inhibition Expert Groups – student groups will have 10 minutes to do a research deep dive into their assigned type of inhibitor/inhibition pathways  Each group will have 10 minutes to prepare a mini poster to present their findings  Each group will have 3 minutes to teach us about their inhibition pathways	TOTD: Enzyme Assessment Check

<b>Friday</b>	I am learning about cellular respiration	I can ... <ul style="list-style-type: none"> <li>• Distinguish between aerobic and anaerobic respiration</li> <li>• Collect and analyze data to construct an appropriate graph</li> <li>• Write a conclusion justified by my data set</li> </ul>	FRQ Friday Do Now – <b>Free Response Answer Construction</b> & Self-Assessment	Muscle Fatigue Lab – Data Collection and Graphing	<b>Lab Conclusion Writing</b>
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Literacy Tasks

Minor Assessment

Major Assessment