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

Topic: Form & Function Organisms: Gas Exchange **Course:** IB Biology Year 2

Grade: 12 **Dates: Jan 27 - 31**

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

This week's Homework Focus: B3.1, B3.2 Kognity Topics, IA Revisions

	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 gametogenesis I am learning about gas exchange	I can • Model the processes of spermatogenesis and oogenesis to review meiosis • Distinguish between cell respiration, inhalation, and gas exchange • Identify organs of the ventilation system Label a cross section of the lung (alveoli, pneumocytes, capillaries)	Math Monday Do Now	Gametogenesis Modeling Lab to Revisit Meiosis Intro to Gas Exchange – Ventilation System Drawings – structure and function	Gametogenesis Lab Conclusions Lung Structures Formative Check TOTD

Tuesday	I am investigating ventilation rates	I can • Calculate ventilation rate • Determine how various factors affect ventilation rates • Calculate tidal volume, expiratory reserve, lung capacity • Outline the steps of inspiration and expiration	Test Prep Tuesday – CER Practice Question (writing claim, evidence, & reasoning)	Ventilation Rate Lab – Lung Capacity & Ventilation Rate Data collection	Lab conclusion writing
Wednesday	I am learning about ventilation and gas exchange.	I can • Distinguish between ventilation and gas exchange • Outline the steps of inhalation • Outline the steps of exhalation • Explain how pressure gradients and concentration gradients support gas exchange	WIS WIM Do Now – Summarizing Sentences and Question Writing	Ventilation and Gas Exchange Outlines and Summaries Inhalation vs Exhalation Review of concentration gradients & diffusion	Ventilation Lab Assessment Check TOTD: Inhalation vs Exhalation turn and talk
Thursday	I am learning bout leaf structure and transpiration	I can • Identify the structures of the leaf • Describe factors that affect transpiration rates in plants • Calculate stomatal density	Throwback Thursday Do Now – MCQ & Justification Writing	Stomata Density Microscopy Lab Leaf Structure Plan Diagrams Xylem and Phloem structures and functions	TOTD: Stomatal Lab Density Lab Conclusions

Friday	I am learning about measuring the rate of transpiration	I can • Design an experiment to measure the rate of transpiration	FRQ Friday Do Now – Free Response Answer Construction & Self-Assessment	Transpiration Rate Virtual Lab – factors that affect rates of transpiration	Transpiration rate lab conclusions

Literacy Tasks Minor Assessment Major Assessment