ARC Week at Glance: AP/IB Biology (Ms. West)

Topic: Unit 2: Cells, Organelles, Cell Size **Course:** AP/IB Biology **Grade: 10, 11, 12** **Dates: Sept 15 - 19**

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

This week's Homework Focus: AP Daily Videos 2.8 & 2.9

	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 cell size	I can … • Calculate cell surface area and volume ratios • Describe the impact surface area and volume ratios have on cell efficiency • Design a protocol to test cell efficiency based on cell size	Math Monday Do Now – SA Volume Question	Cell Size Lab Day 1: Pre Lab Calculations for various cell shapes to include surface area, volume, and ratios. Designing investigation to show efficiency based on cell size using cell cubes	TOTD: Formative Check Surface Area & Volume calculations check Unit 1 Reassessment as needed – small group testing for students who are reassessing Unit 1 (option before school or in class)

Tuesday	I am learning about cell size	I can … • Collect data to determine efficiency of cell models based on surface area and volume ratios • Collect data about diffusion rates using cells of various sizes • Design the perfect cell based on surface area and volume ratio to have the highest efficiency	Test Prep Tuesday Do Now – CER practice question (Claim, Evidence, Reasoning Writing)	Cell Size Lab Day 2: Students will work in collaborative groups to collect and analyze data	TOTD: formative check turn and talk – 3 things I know about how cell size impacts efficiency, 2 things I wonder, 1 thing I would investigate next
Wednesday	I am learning about cell size	I can … • Analyze data to determine efficiency of cell models based on surface area and volume ratios • Analyze data about diffusion rates using cells of various sizes • Design the perfect cell based on surface area and volume ratio to have the highest efficiency	WIS WIM Do Now – Summarizing Sentences & Question Writing	Cell Size Lab Day 3 – Conclusion Writing and Data Presentations Students will present and compare their findings with another group to make final conclusions about cell size investigations	Cell Organelle Midweek Assessment Check

Thursday		•	Throwback Thursday Do Now – MCQ & Justification writing	Asynchronous Day: Cell Membrane Choice Board Assessment Tasks	
Friday		•	FRQ Friday Do Now – FRQ answer construction and self-assessment	Asynchronous Day: Cell Membrane Choice Board Assessment Tasks	

Literacy Tasks Minor Assessment Major Assessment