

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

**Topic:** Unit 4: Cell Communication and Cell Cycle; Unit 5 Genetics    **Course:** AP/IB Biology

**Grade:** 10, 11, 12      **Dates:** Jan 13 - 17

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

**This week's Homework Focus:** 5.1, 5.2 AP Classroom Videos

	<b>Learning Target (I am learning about...)</b>	<b>Criteria for Success (I can...)</b>	<b>Activation/ Instruction</b>	<b>Collaboration/ Guided Practice</b>	<b>Independent Learning/ Assessment</b>
<i>(Include at least one/two formatives*in any part of the lesson as needed)</i>					
<b>Monday</b>	I am learning about the cell cycle	I can <ul style="list-style-type: none"> <li>• Explain the events of Mitosis (PMAT)</li> <li>• Recognize cells in the various stages of the cell cycle</li> <li>• Explain the role of cyclins in cell cycle regulation</li> <li>• Describe how cancer cells impact the cell cycle</li> </ul>	Math Monday Do Now – AP Formulas Practice Question  FRQ Friday AP Classroom Question completed from Friday for Assessment Check	Onion Root Mitosis Data Collection & Analysis (MidPoint)  Cancer vs. Normal Cell Mitotic Index Analysis & CER	Unit 4 MCQ Progress Check Self Assessment – started in class and completed for homework
<b>Tuesday</b>	I am self-assessing my understanding of Unit 4 Content	I can <ul style="list-style-type: none"> <li>• Answer MCQ and FRQ questions to self -assess my understanding of Cell Communication and Cell Cycle Content</li> </ul>	Test Prep Tuesday Do Now – CER practice question (Claim, Evidence, Reasoning Writing)	Unit 4 FRQ Progress Check completed & scored	Self-assessment of Unit 4 FRQ

Wednesday	I am learning about meiosis.	I can <ul style="list-style-type: none"> <li>Describe the process of meiosis</li> <li>Compare and contrast mitosis and meiosis</li> </ul>	WIS WIM Do Now – Summarizing Sentences & Question Writing  Set up Mitosis Lab – Green Onion Roots prepared and put into solution to run until next Wednesday.	Meiosis intro assignment after quiz is completed – graphic organizer to outline key events and image of cell/nuclei	Cell Cycle Assessment Check 4.5 – 4.7 Content Assessment
Thursday	I am learning about meiosis.	I can <ul style="list-style-type: none"> <li>Explain how meiosis leads to genetic variation</li> <li>Explain the events of meiosis</li> </ul>	Throwback Thursday Do Now – MCQ & Justification writing	Meiosis Modeling Lab	TOTD: Mitosis vs Meiosis Turn and Talk formative check
Friday	I am learning about nondisjunction	I can <ul style="list-style-type: none"> <li>Identify homologous chromosome pairs</li> <li>Identify gender based on karyotype</li> <li>Identify abnormalities in karyograms</li> </ul>	FRQ Friday Do Now – FRQ answer construction and self-assessment	Karyotyping Virtual Lab – Chromosome Sorting and Karyogram Diagnoses	Lab Conclusion Writing –

Literacy Tasks

Minor Assessment

Major Assessment