

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 27 - 31

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

This week's Homework Focus: 5.4, 5.5 AP Classroom Videos

	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 nondisjunction	I can <ul style="list-style-type: none"> Identify homologous chromosome pairs Identify gender based on karyotype Identify abnormalities in karyograms 	Math Monday Do Now – AP Formulas Practice Question	Karyotyping Virtual Lab – Chromosome Sorting and Karyogram Diagnoses	Onion Root Mitosis Lab Assessment Check Unit 4 Quizziz Practice Set Self Assessment/Practice for Unit 4 Test
Tuesday	I am demonstrating my understanding of Unit 4 Content	I can <ul style="list-style-type: none"> Answer MCQs and FRQs to demonstrate understanding of cell communication and cell cycle 	Test Prep Tuesday Do Now – CER practice question (Claim, Evidence, Reasoning Writing) Check Meiosis Graphic Organizers	N/A – Unit 4 Assessment	Unit 4 Test – MCQs and FRQs from AP Classroom Questionbank

Wednesday	I am learning about Mendelian genetics	I can <ul style="list-style-type: none"> Distinguish between genotype and phenotype; homozygous and heterozygous; dominant and recessive Use Punnett Squares to solve monohybrid genetics crosses 	WIS WIM Do Now – Summarizing Sentences & Question Writing	Revisit Karyotyping Lab - Karyotyping Virtual Lab – Chromosome Sorting and Karyogram Diagnoses Post Lab Questions completed Spongebob Genetics – use as preassessment piece to see what students remember about basic genetics Punnett Square Practice	Karyotyping Lab Assessment Check TOTD: Monohybrid Crosses Pull any students who did not complete Unit 5 Preassessment during learn from home
Thursday	I am investigating cell signaling	I can <ul style="list-style-type: none"> Explain taste receptor cell signaling pathways Predict impacts to signaling pathways when receptors are blocked Explain the benefits of gymema tea being used by diabetic patients 	Throwback Thursday Do Now – MCQ & Justification writing	Tea Party Lab – Taste Transduction Lab* Tentative rescheduled date subject to change If not doing tea party today, we will continue working on Genetics practice	Tea Party CER
Friday	I am learning about codominance and blood typing	I can <ul style="list-style-type: none"> Write blood type phenotypes and genotypes Solve codominance problems Type simulated blood and explain how blood typing works 	FRQ Friday Do Now – FRQ answer construction and self-assessment	Blood Typing Lab Students will work in collaborative groups to type simulated blood and determine genotypes and phenotypes of samples Students will codominance Punnett squares	Blood Typing Lab conclusion writing

Literacy Tasks

Minor Assessment

Major Assessment