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Hello. We're improving abcam.com and we'd welcome your feedback. Course Scheduling for 2015-2016 School Year Newsletter on Scheduling for Science Courses How Exercise Changes Our DNA. (Epigenetics, my friends) Quest Bridge Scholarship Information www.questbridge.org Interesting - Should a pig's genome be patented? Evolution is Cool: From Ancient DNA, a Clearer Picture of Europeans Today: Mystery of Darwin's Strange South American Mammals Solved: Reproductive Isolation at Work: This Jay is Evolving in a Very, Very Weird Way: Sign up with College Board to check your AP exam scores online: Rutgers Project DSAP - Posters DSAP - CDD DSAP - literature search DSAP - BLASTp and ORF DSAP- BLASTx DSAP- BLASTn DSAP - How to edit waveform DSAP - How to read waveform and crop ends You survived the AP test! I'm proud of all of you!!! And the winners of the Race to Review are... TBA tomorrow, Friday, May 15 Review for AP Exam AP review question PowerPoint Extra Math review answer sheets sheet 1 sheet 2 sheet 3 sheet 4 Math Review PowerPoint Great review study guide with questions and answers Mr. Anderson's review site: Review+2014 REVIEW SESSION: Saturday, May 9, 2015 10:00 - 2:00pm I'll bring the bagels, you bring your brains! Worth extra credit points, if you attend...2 pts. per hour Ecology Unit Ecology PowerPoint Immune System Immune System Review Packet - read and answer interactive questions --due Friday, May 1 Immune System Video: Chapter 35 - Immune system PowerPoint ***Race to Review quiz -Chapters 13-15 --Friday, May 8*** **Race to Review quiz -Chapters 9-12 --Wednesday, May 6*** **Race to Review quiz -Chapter 8 + cell signaling --Friday, May 1*** Angiosperm Humor : Thanks, Jen Rivkin Nervous System Nervous system review questions answer key Chapter 38 reading guide --due Thursday, April 30 (only sections 1-3) Chapter 37 reading guide --due Monday, April 27 Chapter 37 - Nervous system PowerPoint Neuron Function POGIL --due Monday, April 27 please print out Model 1 (it is missing from the packet) Homeostasis and the Endocrine System Unit Complete Homeostasis and Endocrine quiz - we will go over this on Monday, April 27 ***Race to Review Quiz --chapters 6 and 7 --Friday, April 17*** Chapter 32 PowerPoint 2 - Endocrine system PowerPoint Chapter 32 PowerPoint Chapter 32 Reading guide --due Tuesday, April 14 Angiosperm Reproduction and Plant Response Unit ***Quiz --chapters 30 and 31 --Monday, April 13*** (If you would rather use Monday's class period to study for the quiz, you may schedule to take it after school on Tuesday or Wednesday, 4/14 or 4/15.) Chapter 31 clicker questions Chapter 30 clicker questions Plant Hormone POGIL answer key: page 1 page 2 page 3 page 4 page 5 page 6 ***Race to Review Quiz --chapters 4 and 5 --Friday, April 10*** Chapter 31 review sheet answer keys page 1 page 2 page 3 Plant Responses Vodcast mms://media.k12.sd.us/jk169/Plant_Responses_Part_10_20110313.wmv Chapter 31 reading guide--due Thursday, April 9 Alternation of Generations PowerPoint Chapter 30 PowerPoint Angiosperm Reproduction video: Chapter 30 reading guide --due Tuesday, April 7 Origin and Diversity of Life Unit (cont) ***Partner Quiz - chapters 20 and 24 --Thursday, April 2*** Origin of Life PowerPoint BLAST lab due on Monday, April 6 -typed on Word doc Don't forget: Finish Line Friday quiz - chapters 1-3 --Monday, March 30 Evolution Unit Test Free Response Question: Describe the theory of evolution and discuss how it is supported by evidence from two of the following areas: a. population genetics (H-W equilibrium) b. molecular biology c. comparative anatomy and embryology --due Monday, March 30 Origin and Diversity of Life Unit Cladogram Video: BLAST lab BLAST lab: l-coffee link: regular Chapter 24 Reading guide- Origin of Life --due Wednesday, April 1 (This is not an April Fool's joke :) Phylogenetic Tree Activity spreadsheet: Chapter 20 Phylogeny PowerPoint Phylogeny - chapter 20 -reading guide due --Tuesday, March 24 And it's on...the race to review **Finish Line Friday quiz --chapters 1-3*** REVISED: Monday, March 30 Evolution Unit Evolution Unit Practice Quiz (use questions up until #110. after that the material is not on this unit test) Chapter 22 Clicker Questions REVISED ***Evolution Unit test - chapters 19, 21 and 22*** Period 1: Multiple choice - Thursday, March 26 Free Response - Friday, March 27 Period 3: Multiple Choice - Thursday, March 26, period 3 Free Response - Friday, March 27 Bozeman Speciation video: Speciation PowerPoint - chapter 22 Scientific Skills H-W problem answer key To practice using the Hardy-Weinberg equation go to mastering biology and go to the assignment for chapter 21. There are 3 practice problems you can work through. Chapter 21 clicker questions Chapter 19 clicker questions Period 1: Complete H-W lab questions --due Tuesday, March 17 Period 3: Complete H-W practice problems --due Tuesday, March 17 ***Chapters 19 and 21 quiz --Wednesday, March 18*** Chapter 22 reading guide --due Friday, March 20 Period 3 PCRG6.14: Period 3 PCRG5.14: Period 1 Gel B: Period 1 Gel A: Chapter 21 reading guide --due Friday, March 13 Hardy-Weinburg PowerPoint - chapter 21 Population genetics PowerPoint chapter 21 Chapter 19 reading guide --due Wednesday, March 11 Evidence of evolution PowerPoint-chapter 19 View on your own; we will not be going over this in class Darwin PowerPoint-chapter 19 view on your own; we will not be going over this in class Molecular Biology Unit (cont) ***Molecular Biology Unit Test; Multiple Choice--Friday; March 6*** Free Response --due Monday, March 9 (Chapters 13, 14 and 15) ***Take Home Chapter 15 quiz --due Wednesday, March 4*** (To be done on your own, but you may use your notebooks. NO INTERNET) Chapter 13 Clicker Questions Chapter 14 Clicker Questions Chapter 15 Clicker Questions Period 1. PCR gel View this video describing a PCR reaction: View the animation for a PCR reaction: Chapter 15 PowerPoint Successful Transformation Experiments!! Congratulations!! Biotechnology Scavenger Hunt: Complete the online scavenger hunt below on a separate piece of paper. --due Wednesday, February 25 Chapter 15 reading guide --due Monday, February 23 Genetic Mutation POGIL --due Monday, February 9 ***Chapter 14 quiz -- Friday, February 6*** **Note: I have opened up access for you to Masteringbiology for the assignments for chapters 14, 15 and 16. These are not assignments that are due for a grade, but they may be helpful to you as you learn the material.*** Control of Metabolic Pathway worksheet -- due Friday, January 30 Chapter 14 reading guide: From Gene to Protein --due Monday, February 2 Chapter 14 PowerPoint Midterm Exam period 1: Thursday, January 22, 2015, 8:00 - 10:00am period 3: Friday, January 23, 2015, 8:00 - 10:00am Study Guide Midterm review sheets 1 2 3 4 Topics for Free Response: Mendel's Laws and how other types of inheritance deviate from these laws Transport through cell membrane Synthesis of ATP in photosynthesis and respiration Experimental design Chi square how to calculate rate on a graph multiplication rule water potential ***DNA replication take-home quiz -- due Wednesday, January 21*** Chapter 13 reading guide -- due Friday, January 16 DNA History PowerPoint DNA Replication PowerPoint Heredity Unit ***Heredity Unit Test - chapters 10,11, and 12 -- Tuesday, January 13*** Topics for Free Response: Nondisjunction - process and results Chi Square Distribution of alleles in meiosis Be able to determine type of inheritance from given data Recombination frequency Mapping genes Genetic crosses Chapter 10 Clicker Questions Chapter 12 Clicker Questions ***REVISED: Online Fly Lab --due Monday, January 19*** **Chapter 12 Quiz -- Friday, January 9*** period 1: Please do these practice problems: Page 244; #6-9 Please view this video by Thursday, 1/8 AM: Tutorial video for online fruit fly lab: Please go to this website and register with your class code by Thursday, 1/8 AM: Online fruit fly virtual lab: class code period 1: 12766126 class code period 3: 12767494 Chapter 12 - Chromosomal basis of inheritance PowerPoint HAVE A FABULOUS HOLIDAY BREAK!!! Chapter 12 reading guide -- Monday, January 5, 2015 Corn Chi Square Analysis Handout --Complete and hand in --Tuesday, December 23 MasteringBiology online lab - chapter 12 - What can fruit flies reveal about inheritance? Print out answers and hand in --Tuesday, December 23 REVISED***Chapters 10 and 11 quiz --Monday, December 22 OR Tuesday, December 23*** Chicken Combs: Single Rose Pea Walnut Multiplication Rule and Addition Rule Video: Probability Question: page 214 #3 --due Thursday, December 18 Fainting Goats - a recessive disorder: Chapter 11 Clicker Questions Chapter 11 Mendelian Genetics PowerPoint Chapter 11 - Mendelian Genetics reading guide --due Monday, December 15 (you don't have to do the genetics problems mentioned at the end of the chapter, we'll work on this at a different time) Meiosis Sordaria Lab information sheet Sordaria Lab video: Meiosis Sordaria Lab Pictures: Meiosis PowerPoint Chapter 10 Meiosis Reading guide --due Wednesday, December 10 ***Click on the link below to access the Online Mitosis Quiz --complete by Tuesday, December 9 at 8:00am*** Cell Cycle Video: Chapter 9: Cell cycle reading guide --due Friday, December 5 "What is mitosis" worksheet --due Friday, December 5 Chapter 9 - Cell cycle PowerPoint The Metabolism Unit ***Metabolism Unit Test - Chapters 6, 7 and 8 ----Wednesday, December 3*** Chapter 8 Photosynthesis Clicker Questions Metabolism Unit Multiple Choice Practice Not that I'm biased, but this IS the best door and with only 9 students... And you guys earned a bagel breakfast on Wednesday! ***Online Photosynthesis Quiz - Go to Masteringbiology; go to the photosynthesis chapter in the study area; complete the practice quiz; click submit answers; scroll down to the bottom of the page and type in my email address to send me the results of your quiz --due Monday, December 1*** (you may use your notes/textbook, but please do it on your own) Khan Academy Photosynthesis: Bozeman Biology Photosynthesis: Photosynthesis PowerPoint Chapter 8 Photosynthesis Reading guide --due Friday, November 21 ***Chapter 7 - cellular respiration quiz --Tuesday, November 18*** Cellular Respiration Review Packet key 1 2 3 4 5 Respiration Overview POGIL key 1 2 3 4 5 6 7 Oxidative Phosphorylation POGIL key 1 2 3 4 5 Chapter 7 Clicker Questions Mastering Biology online assignments - chapter 7 --due Friday, November 14 Cellular Respiration PowerPoint Complete Lab Bench activity on Cellular Respiration --Tuesday, November 11 (on Masteringbiology.com; chapter 7, study area; at bottom of page) Cellular Respiration Webquest Note: be sure you have your notebook with you on Wednesday, November 5 *** Chapter 6 quiz -- Wednesday, November 5*** Chapter 6 Clicker Questions Chapter 7: Cellular Respiration reading guide -- due Monday, November 10 Click on the link below to answer the question about enzymes: -- Monday, November 3 Google Doc Data for Enzyme Lab: Gibbs Free Energy Video: Chapter 6 Metabolism PowerPoint Chapter 6: Metabolism Reading guide --due Monday, October 27 The Cell Unit ***UNIT TEST: Chapter 4, the cell; Chapter 5, transport and cell communication--Thursday/Friday, October 23/24*** Chapter 5 Clicker Questions Chapter 4 Clicker Questions Complete the practice test for chapter 5 on the masteringbiology.com site --due Thursday, October 23 Reception animation: Signal Transduction Pathway animation: Response animation: Build a signal pathway animation: Cell signaling diagrams - give each a title and label the molecules -- Wednesday, October 22 don't do the 5th, 10th or the 13th diagram. Chapter 5 Cell signaling PowerPoint Complete cell signaling worksheet -- Monday, October 20 View and work with the following animation for Monday, October 20 Signal Transduction Animation: Please watch the Bozeman video on Cell communication by Wednesday, October 15: Diffusion/osmosis challenge answer key 1 2 Cell membrane images answer key 1 2 3 4 5 6 Cell communication PowerPoint Chapter 5 Cell communication reading guide -- print out pages 6-9 and bring to class on Tuesday; you will be able to work on it in class. --due Wednesday, October 15 Isopod (pill bug) baby found by honors biology student: Gabe Bringas: Chapter 4 quiz corrections - come after school on Thursday, 10.9.14 or Friday, 10.10.14 ***Quiz - Transport and Water Potential problems (~18 questions) --Monday, October 13*** Practice Water Potential Problem: At 30 degrees C, a plant cell containing 0.9 M glucose is in equilibrium with its surrounding solution containing 0.2 M glucose in an open container. What is the cell's pressure potential? Period 1: Complete Water Potential Problem sheet Period 3: Complete the 4 analysis questions from the lab -- due Thursday, October 9 Transport PowerPoint Complete Lab bench activity: Diffusion/Osmosis -- Tuesday, October 7 (go to Masteringbiology, click on lab media, click on lab bench, click on diffusion/osmosis) Cell Free Response Questions --due Monday, October 6 Cell organelle comparison worksheet answer key side 1 Cell organelle comparison worksheet answer key side 2 REVISED***Chapter 4 - Cell quiz -- Friday, October 3*** Chapter 5: Cell Transport Reading guide --due Friday, October 3 Chi Square Video: Be sure to read through the Pill Bug Lab handout before Monday Complete the Animal Behavior activity on the MasteringBiology site. It can be found on the left side bar when you are in the "study area". Don't forget to do the lab quiz at the end. -- Monday, September 22 Chapter 4 - The cell PowerPoint Chemistry and Macromolecule Unit Macromolecule Prediction worksheet answer key Triglyceride: Complete macromolecule worksheet -- due Monday, September 15 ***REVISED: Chapter 3 quiz -- Wednesday, September 17*** Polysaccharide by Period 3: Polysaccharide by Period 1: Chapter 3 PowerPoint - Macromolecules Chapter 3 PowerPoint - Carbon Chemistry ***Chapter 2 quiz ---- Wednesday, September 10*** Chapter 2 PowerPoint - Water Chapter 2 PowerPoint - Chemistry ***Safety quiz on safety rules ---- Friday, September 5*** Simpsons Safety Video: To register on the MasteringBiology site use this URL: www.pearsonschool.com/access (complete all information; you will have to select "other" for school name and then type in Fair Lawn HS; you have a class code, which is on the handout I gave you, but you do not have a student ID.) Summer Assignment and Information Sheet NOTE: READING GUIDES ARE LINKED BELOW Print out each reading guide and complete as you read each chapter. These reading guides do not correspond with the chapter numbering in your textbook, but the content is basically identical. Chapter on reading guide Chapter in textbook

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