

***AP Biology Course Outline – 1st Semester***

**Week 1 – September 5 – September 9**

**MONDAY - No school Labor Day**

**TUESDAY - Introduction to AP Biology, expectations, grading, etc. Collect Summer Assignment Part II (Chapter 51-55 questions)**

**WEDNESDAY – Diagnostic Test – What do you remember? AP Biology Pretest; Pass out class overview packet and AP Biology Vocabulary list.**

**THURSDAY - Students select random lab table assignments; Vocabulary review activity. Each students will select random ecology vocab words and work withing groups to use words in connected meaningful sentences and then use them to write paragraphs to explain an ecology topic.**

**FRIDAY – Complete vocabulary assignment by using a minimum of 10 selected words to build an ecology based concept map. Summer assignment “Mystery Plants” due.**

**Week 2 - September 12 – September 16**

**MONDAY - Presentation of concept maps; Part III of Summer Assignment “What do Animals Do?”**

**TUESDAY - Introduce Chi Square analysis as statistical tool in biology; *M&M Chi Square Lab* ; Go over Standard Deviation and Standard Error.**

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**WEDNESDAY - Hand out AP Lab 11 Animal Behavior; Lab groups pick substances to test pill bugs preferences.**

**Go over Animal Behavior powerpoint.**

**THURSDAY - Students perform Animal Behavior lab.**

**FRIDAY - Complete behavior lab. Begin Ecology lecture: Factors affecting distribution of species**

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**Week 3 – September 19 - 23**

**MONDAY - Continue Unit 1 lecture: Population biology and Energy Flow in Ecosystems “Rule of Ten” Hand out AP Lab 12 “Dissolved Oxygen” Lab bench quiz due on Wednesday, September 21**

**TUESDAY– Continue Unit 1 lecture: Energy flow in Community Interactions; Discuss AP Lab 12: “Dissolved Oxygen” Demonstrate Winkler Method used in lab and how to do titrations. Homework: pre-lab questions**

**WEDNESDAY – AP Lab 12 Set up Part 1; Reading of bottles may require more than I hour, expect to stay after school on Wednesday, if necessary to complete titrations.**

**THURSDAY - - AP Lab 12 Part II and Part III, (extra time may required to complete Part II). AP Lab 12 will require a formal write up. Formal lab report will be due on Thursday, September 29. ; Homework: Review questions for Unit 1 test. Suggested: view Bozemanbiology videos on Ecology for review**

**FRIDAY - Half-day; No AM classes**

**Week 4 - September 26 – September 30**

**MONDAY - Continue Unit 1 lecture: Human impacts on the environment; explain formal lab report**

**TUESDAY – UNIT 1 TEST – ANIMAL BEHAVIOR AND ECOLOGY (CHAPTERS 51,52,53,54,55,56) - TEST WILL FOLLOW AP FORMAT WITH 20 - 25 MULTIPLE CHOICE, 2 GRID IN MATH PROBLEMS, 2 – 3 SHORT ANSWER AND 1 LONG FREE-RESPONSE.**



**WEDNESDAY - Begin Evolution Unit: Chapter 22 reading guide due at beginning of hour. Lecture on Darwin and his theory.**

**THURSDAY - Formal lab report AP Lab 12 Dissolved Oxygen due at beginning of hour; Chapter 23 reading guide due at beginning of hour. Lecture Chapter 23, Population Biology. Review basic genetics terminology : *homozygous, heterozygous, dominant, recessive, simple punnett squares.***

**FRIDAY - Chapter 23 reading guide due at the beginning of the hour. Hardy-Weinberg equation and practice problems. Pre-lab questions for Lab 8: “ Population Genetics”**

**Week 5 - October 3 – October 7**

**MONDAY – AP Lab 8 Population Genetics. Lab due on Thursday, October 6. Hand out “Mathematical Modeling – Hardy-Weinberg” Homework: Pre-lab questions. Look at Bozembiology video “Population Modeling”**

**TUESDAY - - Computer Lab: AP Investigative Lab: “Mathematical Modeling – Hardy-Weinberg” Post-lab questions due Monday, October 10.**

**WEDNESDAY - Computer Lab: Complete Mathematical Modeling, then go to ”Evolution”** [***http://ats.doit.wisc.edu/biology/lessons.htm***](http://ats.doit.wisc.edu/biology/lessons.htm)**and proceed through program**

**THURSDAY - Chapter 24 reading guide due at beginning of hour. Lecture Chapter 24 Origins of Species.**

**FRIDAY - - Chapter 25 reading guide due at beginning of hour. Lecture Chapter 25, Origins of Life.**

**Week 6 - October 10 – October 14**

**MONDAY - Activity: Create concept map utilizing vocabulary words relating to Origins or Life**

**TUESDAY - Complete Concept map and present to class for peer review.**

**WEDNESDAY - Chapter 26 reading guide due at beginning of hour; Lecture on phylogeny and classification**

**THURSDAY - – Activity: “Cananimalicules”**

**FRIDAY - Continue activity: “ Cananimalicules**

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**WEEK 7 - October 17 – October 21**

**MONDAY - Activity on developing cladograms – work in groups, due at end of hour. Handout AP Investigative Lab 3: Comparing DNA sequences to understand evolutionary relationships using BLAST (bioinformatics). Homework: Answer pre-lab questions, due, Tuesday; view Bozemanbiology video on youtube “Comparing DNA sequences”**

**TUESDAY – Computer lab: Blast Lab**

**WEDNESDAY - Complete Blast lab; Post-lab questions due Friday, October 17; Hand out list essay questions for Evolution Test.**

**THURSDAY - UNIT 2 EVOLUTION TEST (CHAPTERS 22,23,24,25, 26) 20 – 25 MULTIPLE CHOICE QUESTIONS, 2 GRID-IN MATH PROBLEMS, 2 SHORT ANSWERS AND ONE LONG FREE RESPONSE QUESTION.**

**FRIDAY - Chapter 27 reading guide due at the beginning of the hour; Six Kingdoms of Life; Lecture on Bacteria and Archaea**

**Week 8 – October 24 – October 28**

**MONDAY – Lecture: Evolution of the plant kingdom**

**TUESDAY - Lecture: Evolution of the animal kingdom; brief overview of protest and fungi**

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**WEDNESDAY - Unit 4, Chemistry. Review of basic chemistry (Chapter 2 on your own). Look at review powerpoint;/ Chapter 3 reading guide due at the beginning of the hour. Lecture: Chapter 3: Properties of water**

**THURSDAY - Lab: Properties of Water**

**FRIDAY - Half-day; PM classes only**

***END OF FIRST CARDMARKING***

***SECOND CARDMARKING BEGINS***

 ***Happy Halloween!***

 

**Week 1 – October 31 – November 4**

**MONDAY - Chapter 4 reading guide due at the beginning of the hour. Chapter 5 reading guide will be due on Friday, November 4. Lecture on Chapter 4 and 5.1: Carbon chemistry and macromolecules.**

**TUESDAY – Lecture on Carbohydrates and Lipids – Chapter 5.2 and 5.3**

**WEDNESDAY - Modeling carbs and lipids lab**

**THURSDAY - Complete carbs and lipids, begin lecture on amino acids and proteins.**

**FRIDAY - Chapter 5 reading guide due at the beginning of the hour. Lecture on protein structure**

**Week 2 - November 7 – November 11**

**MONDAY - Modeling protein structure using toobars, due at the end of hour**

**TUESDAY - Election Day – No school**

 **WEDNESDAY – Group activity: Practicing biology – review of macromolecules – relating structure and function**

**THURSDAY - 8.4 reading guide due at the beginning of the hour; lecture on enzyme function**

**FRIDAY - – Reading guide 42 due at the beginning of the hour; Lecture Role of Enzymes in the digestive system; Hand out AP Lab: Enzyme Catalysis. Lab Bench quiz due on Monday, November 14**

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**Week 3 – November 14 – November 18**

**MONDAY - Enzyme catalysis lab Part A, 2B (practice baseline), setup 2**

**TUESDAY – Enzyme catalysis lab, complete 2C, then 2D, Lab packet due Monday, November 21**

**WEDNESDAY – Lecture 5.5: Structure and function of Nucleic acids**

**THURSDAY - - CHEMISTRY UNIT TEST (CHAPTERS 3,4,5,8.4,42) 15-20 MULTIPLE CHOICE QUESTIONS, 2 GRID-IN PROBLEMS, 2 SHORT ANSWER AND 1 LONG FREE-RESPONSE QUESTION**

**FRIDAY - Chapter 6 reading guide due at the beginning of the hour; Lecture: prokaryotic and eukaryotic cells and cell organelles**

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**Week 4 - November 21 – November 25**

**MONDAY - Chapter 7.1 reading guide due at the beginning of hour; Lecture on plasma membrane structure and function.**

**TUESDAY - Half-day; PM classes only**

**WEDNESDAY: NO SCHOOL: THANKSGIVING HOLIDAY**

**THURSDAY: NO SCHOOL: THANKSGIVING HOLIDAY**

**FRIDAY - NO SCHOOL: THANKSGIVING HOLIDAY**



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**Week 5 – November 28 – December 2**

**MONDAY - Cell modeling: Create a poster of a bacterial, plant, or animal cell, with one 3-D functional organelle, and present organelle to class.**

**TUESDAY - Complete cell modeling activity**

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**WEDNESDAY - Reading guide 7.2, 7.3, 36.2 due at the beginning of the hour; Lecture Cellular Transport and Water Potential; Hand out AP Investigative Lab: Osmosis and Diffusion; pre-lab questions due Thursday, December 1**

**THURSDAY - AP Investigative Lab: Osmosis and Diffusion Procedure 1**

**FRIDAY - Continue Osmosis and Diffusion Lab: Procedure 2**

**Week 6 - December 5 – December 9**

**MONDAY – Complete Osmosis and Diffusion Lab. Lab results will be presented as mini-posters. See my website under lab tab for instructions on how to do mini-posters. Mini-posters will be due on Monday, December 12**

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 **TUESDAY - How do they do that? Cells to higher animals Chapter 44 reading guide due at the beginning of the hour. Lecture: Osmoregulation**

**WEDNESDAY - Chapter 11 reading guide due at the beginning of hour. Lecture: Cell communication.**

**THURSDAY - Chapter 48 reading guide due at beginning of hour. Lecture: Neurons, synapses, and signaling**

**FRIDAY - Chapter 45 reading guide due at beginning of hour. Lecture: Cell signaling in the endocrine system**

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**Week 7 - December 11 – December 16**

**MONDAY - Cell unit review day**

**TUESDAY - CELL UNIT TEST (CHAPTERS 6,7,11,44,45,48) 15-20 MULTIPLE CHOICE QUESTIONS, 2 GRID-IN OR PROBLEM SOLVING, 2 SHORT ANSWER, AND 1 LONG FREE-RESPONSE QUESTION.**

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**WEDNESDAY - Chapter 8.1, 8.2, 8.3 reading guides due at beginning of hour; Lecture: Introduction to metabolism.**

**THURSDAY - Chapter 9.1, 9.2, 9.3 reading guidesr; Lecture: Glycolysis and the Kreb’s Cycle (completed Chapter 9 reading guide may be turned in on Wednesday.)**

**FRIDAY – Chapter 9.4, 9.5, 9.6 reading guides due at beginning of hour. Lecture: Electron transport, chemiosmosis, and fementation.**

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**Week 8 – December 19 – December 23**

**MONDAY - Activity: Modeling Cellular Respiration**

**TUESDAY - Completion and presentation of Cellular Respiration model. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

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 ***Christmas Break - December 21 – January 3***

**Week 9 - January 4 – January 6**

**WEDNESDAY - Complete Cell Respiration Models presentations; Hand out and explain AP Lab 5: Cell Respiration. Pre-lab questions due Monday, December 16**

**THURSDAY - AP Lab 5: Cellular Respiration; Lab packet due Friday, January 9**

**FRIDAY - Chapter 42 reading guide due at beginning of hour; Lecture: how do they do that? Cells to higher animals. Circulation and respiration.**

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**Week 10 - January 9 – January 13**

**MONDAY - Chapter 10.1 and 10.2 reading guides due at the beginning of the hour (may turn in completed Chapter 10 reading guide on Thursday). Lecture: Structure of the chloroplast and light-dependent reactions of photosynthesis**

**TUESDAY - Chapter 10.3 and 10.4 reading guide due at beginning of hour; Lecture: Calvin Cycle and C4, CAM photosynthesis**

**WEDNESDAY - Activity: Practicing Biology – Modeling photosynthesis**

**THURSDAY - Complete Modeling photosynthesis and presentation of models**

**FRIDAY - Review day**

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**Week 11 - January 16– January 20**

**MONDAY – NO SCHOOL; MARTIN LUTHER KING HOLIDAY**

**TUESDAY – Review day**

**WEDNESDAY - MIDTERM EXAMS HALF-DAY**

**THURSDAY - MIDTERM EXAMS HALF-DAY**

**FRIDAY - MIDTERM EXAMS HALF-DAY**

***END OF FIRST SEMESTER***

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 ***AP Biology Course Outline – 2nd Semester***



**Week 1 - January 19 – January 23**

**MONDAY - Martin Luther King holiday**

**TUESDAY - Lecture: Chapter 10.1 and 10.2 Structure of the Chloroplast and light-independent reactions of photosynthesis**

**WEDNESDAY - Lecture: Chapter 10.3 and 10.4 Calvin Cycle and C4, CAM photosynthesis**

**THURSDAY - Activity: Practicing Biology - Modeling Photosynthesis**

**FRIDAY - Complete Modeling Photosynthesis and presentation of models**

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**Week 2 - January 26 – January 30**

**MONDAY - AP Lab 5 Photosynthesis Procedure 1; practice floating disk method of measuring photosynthesis; decide on your own investigation and design a procedure.**

**TUESDAY - Carry out your investigation. A formal lab report on your investigation will be due on Tuesday, February 4**

**WEDNESDAY - Complete Photosynthesis lab; Learn about Standard Deviation and use of Error Bars**

**THURSDAY - CELL ENERGY UNIT TEST (CHAPTERS 8.1, 8.2, 9. 10, 42) 20-25 MULTIPLE CHOICE QUESTIONS, 2 GRID-IN OR PROBLEM SOLVING, 2 SHORT ANSWER AND 2 LONG FREE-RESPONSE QUESTIONS**

**FRIDAY - Half-day, AM only Chapter 12 reading guide due at the beginning of the hour; Lecture on Cell Division in prokaryotes and eukaryotes; Mitosis and the Cell Cycle**

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**Week 3 - February 2 – February 6**

**MONDAY - Continue lecture on Chapter 12 - Control of the cell cycle;**

**TUESDAY - Chapter 13 reading guide due at the beginning of the hour; Lecture on Chapter 13; Meiosis and genetic variation**

**WEDNESDAY - AP Biology Lab 3 “Mitosis and Meiosis” Part A and Part B**

**THURSDAY - Complete Lab 3 Part C; Lab Packet due Tuesday, February 10**

**FRIDAY - - Chapter 14 reading guide due at the beginning of the hour; Lecture Chapter 14 – Principles of Medelian genetics and rules of probability**

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**Week 4 - February 9 – February 13**

**MONDAY - Probability Lab and review of Chi Square**

 **TUESDAY - Complete Chapter 14 lecture; Complex patterns of inheritance; Human Mendelian traits; Lab 3 due at beginning of the hour**

**WEDNESDAY - Chapter 15 reading guide due at the beginning of the hour; Lecture: Chapter 15 – Chromosomal basis of inheritance**

**THURSDAY - Complete Chapter 15 lecture; Handout Genetics Practice Problems - work on in class**

**THURSDAY - Complete Genetics Problems; Go over in class; begin “Dragon Genetics”**

**FRIDAY - Half-day; PM only; complete “Dragon Genetics” AM classes complete as homework**

***WINTER BREAK – FEBRUARY 16-FEBRUARY 20***

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**Week 5 - February 23 – February 27**

**MONDAY - CELL DIVISION AND GENETICS UNIT TEST (chapters 12, 13, 14,15) 25-30 multiple choice questions, 2 grid-ins; 2 short essays, and two long free-response questions.**

**TUESDAY - Chapter 16 reading guide due at the beginning of the hour; Lecture: History and structure of DNA; DNA replication and its relationship to cancer**

**WEDNESDAY - “Extraction of Strawberry DNA” Begin Chapter 17 lecture: Transcription and Translation**

**THURSDAY - Chapter 17 reading guide due at beginning of the hour (Begin with question 11; Continue lecture on Transcription and Translation**

**FRIDAY - - Chapter 18 reading guide due at the beginning of the hour; Lecture: Regulation of Gene Expression**

**Week 6 - March 2 – March 6**

**MONDAY - Complete Lecture on Chapter 18 - Regulation of Gene Expression**

**TUESDAY - ACT TESTING**

**WEDNESDAY - - Chapter 19 reading guide due at the beginning of the hour; Chapter 19 lecture: Viruses;**

**THURSDAY - Chapter 20 reading guide due at the beginning of the hour; Lecture on DNA technology**

**FRIDAY - Complete Chapter 20 lecture: DNA techonogy; Lab Bench quiz 6 due Monday**



 **Week 7 - March 9 – March 13**

**MONDAY - Recombinant DNA lab simulation**

**TUESDAY - AP Biology Lab 6A: “Molecular Genetics – Transformatiion” setup**

**WEDNESDAY - Complete “Transformation Lab” Lab Packet due Monday, March 16**

**THURSDAY - Flexible Catch-up day / Half-day AM classes only – Parent Teacher Conferences**

**FRIDAY - Preparation for Lab 6B - Molecular Genetics “Gel Electrophoresis and Restriction Fragment Mapping”**

***SATURDAY LAB - “GEL ELECTROPHORESIS”***

***TIME TO BE DETERMINED***

**Week 8 - March 16 – March 20**

**MONDAY - Review of Molecular Genetics**

**TUESDAY - MOLECULAR GENETICS UNIT TEST (CHAPTERS 16, 17, 18, 19, 20) 25-30 MULTIPLE CHOICE QUESTIONS, 2 GRID-INS, 2 SHORT ESSAY AND 2 LONG FREE-RESPONSE QUESTIONS**

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**WEDNESDAY - - Chapter 35 reading guide due at the beginning of the hour: Lecture on plant structure and growth**

**THURSDAY - Chapter 36 (Review water potential from 1st semester) reading guide due at beginning of the hour; Lecture on transport in plants and plant nutrition; Lab Bench for AP lab 9 Transpiration due Friday**

**FRIDAY - AP Biology Lab 9 “Transpiration” Lab Packet due Wednesday, March 25**

**Week 9 - March 23 – March 27**

**MONDAY - Chapter 38 reading guide due at the beginning of the hour; Lecture Chapter 38 Angiosperm reproduction**

**TUESDAY - Chapter 39 reading guide due at the beginning of the hour; Lecture on plant hormones and photoperiod**

**WEDNESDAY - Complete plant unit**

**THURSDAY - PLANT UNIT TEST (CHAPTERS 35, 36, 38, 39) 20-25 MULTIPLE CHOICE, 2 GRID-INS, 2 SHORT ESSAY AND 2 LONG FREE-RESPONSE QUESTIONS**

**FRIDAY - Half-day PM classes only; Flexible catchup day**

***END OF THRID MARKING PERIOD***



**Week 1 - March 30 – April 2**

**MONDAY - Chapter 43 reading guide due at the beginning of the hour; Lecture on the Immune system**

**TUESDAY - Complete lecture on Immune System; Pogil activity on immune system**

**WEDNESDAY - Chapter 47 reading guide due at the beginning of the hour; Lecture on Animal Development**

**THURSDAY - Half-day AM classes only; Flexible catch-up day**

**FRIDAY - No school; Spring break begins**

 

***SPRING BREAK - APRIL 6 - APRIL 10***

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**Week 2 - April 13 – April 17**

**MONDAY - Chapter 49 reading guide due at the beginning of the hour; Lecture on nervous systems and the human brain**

**TUESDAY - Chapter 50 reading guide due at the beginning of the hour; Lecture on selected parts of sensory and motor systems**

**WEDNESDAY - TEST ON REMAINING VERTEBRATE SYSTEMS (CHAPTERS 43, 47, 49, 50) 20-25 MULTIPLE CHOICE QUESTIONS, 2 GRID-INS, 2 SHORT ESSAYS, AND TWO LONG FREE-RESPONSE QUESTIONS**

  

**THURSDAY - Begin AP Test Review: Animal Behavior and Lab 1 Fruit Fly Behavior**

**FRIDAY - AP Test Review: Ecology Unit Review**

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**Week 3 - April 20 – April 24**

**MONDAY - AP Test Review: Ecology Unit; Dissolved Oxygen Lab**

**TUESDAY - AP Test Review: Evolution Unit Review**

**WEDNESDAY - AP Test Review: Evolution: Artificial Selection Lab, Population Labs: Hardy-weinberg and mathematical modeling lab, Phylogeny and BLAST lab**

**THURSDAY - AP Test Review: Chemistry Unit**

**FRIDAY - AP Test Review: Chemisty Unit and Enzyme Catalysis lab**

**Week 4 - April 27 - May 1**

**MONDAY - AP Test Review: Cell unit**

**TUESDAY - AP Test Review: Cell unit and Osmosis and Diffusion Lab**

**WEDNESDAY - AP Test Review: Cell Energy Unit**

**THURSDAY - AP Test Review: Cell Energy Labs: Photosynthesis and Cellular Respiration**

**FRIDAY - AP Test Review: Cell cycle and Meiosis**

 **Week 5 - May 4 – May 8**

**MONDAY - AP Test Review: Mendelian Genetics**

**TUESDAY - AP Test Review: Molecular Genetics, DNA replication, transcription and translation**

**WEDNESDAY - AP Test Review: Molecular Genetics Labs: Transformation and Gel Electrophoresis**

**THURSDAY - AP Test Review: Body Systems**

**FRIDAY - AP Test Review: Film on Homeostasis; Continue Body Systems**

***THERE WILL BE A SATURDAY REVIEW SESSION ON MAY 8TH. ALL STUDENTS TAKING THE AP EXAM ARE EXPECTED TO ATTEND. AFTERSCHOOL SESSIONS MAY BE SCHEDULED, DEPENDING ON STUDENT INTEREST.***

 ***AP Biology Exam is Monday, May 11***



 ***4TH CARDMARKING***

**Week 1 - April 11 - April 15**

**MONDAY - Chapter 49 reading guide due at the beginning of the hour: Lecture: Nervous systems**

**TUESDAY - Chapter 50 reading guide due at the beginning of the hour: Lecture: Sensory systems**

**WEDNESDAY - Continue Chapter 50 lecture: Motor Mechanisms**

**THURSDAY - Test on Remaining vertebrates systems : Chapters 43, 46, 47, 49, 50 (Immune system, Animal Reproduction and Development, Nervous systems, and Sensory systems and motor mechanisms)**

**FRIDAY - AP Test Review Animal Behavior and Lab 12**

**Week 2 - April 18 - April 22**

**MONDAY - AP Test Review Ecology Unit**

**TUESDAY - AP Test Review Ecology Unit and Lab 11 Dissolved Oxygen**

**WEDNESDAY - AP Test Review Evolution Unit**

**THURSDAY - AP Test Review Evolution Unit and Lab 8 Population Genetics**

**FRIDAY - AP Test Review Biodiversity Review**

**Week 3 - April 25 - April 29**

**MONDAY - AP Test Review Biodiversity**

**TUESDAY - AP Test Review Chemistry Unit**

**WEDNESDAY - AP Test Review Chemistry Unit and Labs 2 Enzyme Catalysis**

**THURSDAY - AP Test Review Cell Unit**

**FRIDAY - AP Test Review Cell Unit and Lab 1 Diffusion and Osmosis**

**Week 4 - May 1 – May 5**

**MONDAY - AP Test Review Cell Energy Unit**

**TUESDAY - AP Test Review Cell Energy Unit and Labs 4 and 5 Photosynthesis and Cell Respiration**

**WEDNESDAY - AP Test Review Body Systems**

**THURSDAY - AP Test Review Body Systems and Homeostasis**

**FRIDAY - AP Test Review DNA Labs 6 and 7 Mendelian and Molecular Genetics**

***In addition to class review, there will be after school review session during the week of April 25 – April 29***

 ***AP Biology Exam is Monday, May 9***

