



AP Biology AP Exam Review Notebook

**Assigned: 2/13 Due: 5/8 @ 3:15PM**

You will be compiling a review notebook to assist you to prepare for the Ga Milestone (**5/1 & 5/2**) and AP Exam (**5/8**). This assignment will be an exam grade (250 points). The following are the items that are to be completed and placed into your review notebook. It would be a **WISE** decision to include your Race to the Slopes quizzes for extra review questions. Extra credit may be given for completion of extra items. This is a long term assignment & NO LATE SUBMISSIONS will be accepted under any circumstance! The notebook is due on **Monday, May 8, 2016 by 3:15pm** to Mrs. Jones’ classroom.

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| **✓** | **Dates** | **Items to be Completed** |
|  | 3/1 | Diagnostic Test – Barron’s PreTest (AP) – itsLearning (A) |
|  | 3/3 | Diagnostic Test - PreTest (Ga Milestone) – USATestPrep (B) |
|  | 3/8 | **CHECKPOINT** (**40 POINTS)** |
|  | 3/10 | Lowest EOCT Section (90% mastery) – USATestPrep (D) |
|  | 3/13 | Complete 1 Barron’s Practice Test (C) |
|  | 3/17 | Second Lowest EOCT Section (90% mastery) – USATestPrep (D) |
|  | 3/24 | Middle EOCT Section (90% mastery) – USATestPrep (D) |
|  | 3/27 | Complete released exam – itsLearning (E) |
|  | 3/31 | **CHECKPOINT (120 POINTS)** |
|  | 4/10 | Complete 1 Barron’s Practice Test (C) |
|  | 4/14 | Second Highest EOCT Section (90% mastery) – USATestPrep (D) |
|  | 4/17 | Laboratory Review/Science Practices – 6 videos (H & I) |
|  | 4/21 | Highest EOCT Section (90% mastery) – USATestPrep (D) |
|  | 4/22 | **AP Biology Practice Exam** (*student choice*) (F) |
|  | 4/24 | Complete released exam – itsLearning (E) |
|  | 4/28 | **CHECKPOINT (200 POINTS)** |
|  | 4/30 | Full-Length Practice Ga Milestone Exam – USATestPrep (G) |
|  | 5/8 | Completed Notebook due to Mrs. Jones’s room by **3:15 pm****250 POINTS GOING IN GRADEBOOK** |

\* additional points are either Barron Review Sections or student choice point assignments (see the student choice list)

You must complete a total of 250 points!

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| **Required Items** | **Student Choice** |
| **✓** | **Item** | Points | **✓** | **Item** |  |
|  | AP Diagnostic Test | 5 pts |  | AP Biology Practice Exam | 15 pts |
|  | EOCT Diagnostic Test | 5 pts |  | Barron’s Section Review | 48 pts |
|  | USATestPrep EOCT Section Quizzes | 25 pts |  | Barron’s Practice Exam (1) | 15 pts |
|  | USATestPrep EOCT Practice Exam | 5 pts |  | Released AP Exam (1) | 15 pts |
|  | Barron’s Practice Exam (1) | 15 pts |  | Mastering Biology | 40 pts |
|  | Released AP Exam (1) | 15 pts |  | Numeric Response | 20 pts |
|  | Laboratory Review (5) | 25 pts |  | Extra Inquiry Diagrams | 10 pts |
|  | Science Practices | 35 pts |  | Exploring Diagrams | 15 pts |
|  | Scientific Skills MC Practice | 10 pts |  | Research Method Diagrams | 6 pts |
|  | Problem-Solving Exercises (4) | 8 pts |  | MBC Barron’s Practice Test | 6 pts |
|  | Binder | 2 pts |  | Problem-Solving Exercises (4) | 8 pts |
|  |  |  |  | Additional Lab Review (4) | 25 pts |
|  |  |  |  | 2012 Released Questions | 5 pts |
| **Total Points: 150 points** | Total Points: 225 points (choose 100 points) |

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| **Diagnostic Test (AP Exam) – A**  |
| 5 pts | *You* ***must*** *complete the Barron’s diagnostic test (posted on itsLearning in Review Notebook folder). You are only required to answer the questions check/correct your answers with another color pen/marker and determine your scores for the following sections. Identify the 4 areas you feel you should work on from the topics below:***Due: 3/1** |
|  | **Barron’s** | **Number Incorrect** | **Score:****(%)** | **Work on! (✓)** |
|  | Biochemistry & Enzymes |  |  |  |
|  | Cells & Cell Division |  |  |  |
|  | Cell Respiration & Photosynthesis |  |  |  |
|  | Heredity & Molecular Genetics |  |  |  |
|  | Classification & Evolution |  |  |  |
|  | Animals |  |  |  |
|  | Plants |  |  |  |
|  | Ecology |  |  |  |

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| **Diagnostic Test (Ga Milestone) – B**  |
| 5 pts | *You* ***must*** *complete the USATestPrep diagnostic test (created as an assignment on your account). You only need to respond on the USATestPrep website. After completion of the diagnostic test, fill in the following chart with your scores.***Due: 3/3** |
| **Cells** | **Organisms** | **Genetics** | **Ecology** | **Evolution** | **Overall** |
|  |  |  |  |  |  |
| **Barron’s Practice Exams – C**  |
| 30 pts(15 pts each) | *Complete the practice tests from Barron’s – complete multiple choice, numeric response, and free response. You are only required to answer the question and write an explanation for the answer. After completion, check/correct your answers with another color pen/marker.**\*****Note****: one is required, one is student choice\****Due: 3/13 & 4/10** |
| **✓** |  |
|  | Practice Test 1 |
|  | Practice Test 2 |

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| **USATestPrep Ga Milestone Review – D** |
| 25 pts(5 pts each) | *Using the USATestPrep, you are to complete activities, games, and practices to improve your section scores. You need to take a 20 question Domain-Specific Exam and demonstrate mastery with a* ***90%*** *or higher.***Due: 3/10, 3/17, 3/24, 4/14, & 4/21** |
| **Cells** | **Organisms** | **Genetics** | **Ecology** | **Evolution** |
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| **Released AP Exams – E**  |
| 30 pts(15 pts each) | *Complete the released exams from 2002 and 2008. These have been uploaded to itsLearning Review Notebook folder as pdfs for you. You are only required to answer the question and write an explanation for the answer. After completion, check/correct your answers using another color pen/marker with the key located in Mrs. Jones’s classroom.**\*****Note****: one is required, one is student choice\****Due: 3/27 & 4/24** |
| **✓** |  |
|  | 2002 |
|  | 2008 |

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| **AP Biology Practice Exam – F**  |
| 15 pts | *STUDENT CHOICE ITEM: Come on a Saturday morning to take the Practice Exam released by CollegeBoard to prepare for the AP Exam. \*I expect an honest effort\****Due: 4/22** |
| **✓** |  |
|  | Released Practice Exam |

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| **USATestPrep Ga Milestone Practice Exam – G**  |
| 5 pts | *Using the USATestPrep, complete the “Full Test” for the Biology Georgia Milestone End of Course.***Due: 4/30** |
| **✓** | **USATestPrep** | **Score** |
|  | Full Test |  |

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| **Laboratory Review – H**  |
| 25 pts(5 pts each)**✓** | *Using the Playposit (****h64b6b****), review the AP Biology. You must view video in its entirety, complete all questions embedded in video, and use your real name when you view the video.**\*Note: 5 labs are required and 4 labs are student choice\****Due: 4/17** |
|  | Lab 1: Diffusion & Osmosis |
|  | Lab 2: Enzyme Catalysis |
|  | Lab 3: Mitosis & Meiosis |
|  | Lab 4: Plant Pigments & Photosynthesis |
|  | Lab 5: Cellular Respiration |
|  | Lab 6: Molecular Biology |
|  | Lab 8: Population Genetics & Evolution |
|  | Lab 9: Transpiration |
|  | Lab 11: Animal Behavior |

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| **Science Practices – I**  |
| 35 pts(5 pts each) | *Using the Playposit (****h64b6b****), review the science practices. You must view the video in its entirety, complete all questions embedded in video, and the additional worksheet.* **Due: 4/17** |
| **✓** | **Topics** |
|  | SP 1: Models & Representation |
|  | SP 2: Using Mathematics |
|  | SP 3: Scientific Questioning |
|  | SP 4: Data Collection Strategies |
|  | SP 5: Analysis & Evaluation of Evidence |
|  | SP 6: Scientific Explanations & Theories |
|  | SP 7: Scales, Concepts, & Representations |

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| **Scientific Skills MC** |
| 10 pts | *Complete the practice Scientific Skills Exercise multiple choice questions on itsLearning.* |
| **✓** |  |
|  | Semester 1 (25 questions) – **3 pts** |
|  | Semester 2 (35 questions) – **4 pts** |
|  | Hodge Podge (25 questions) – **3 pts**  |

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| **Barron’s (4th Edition) Section Quizzes** |
| 48 pts(3 pts each) | *You* ***must*** *complete the section quizzes from Barron’s – complete multiple choice, numeric response, and lab questions (free response is at your discretion and is not required). You are only required to answer the question and write an explanation for the answer. After completion, check/correct your answers with another color pen/marker. Each section quiz should be on its own page with the section title.**STUDENT CHOICE ASSIGNMENT* |
| **✓** | **Reading Pages** | **Section** | **Question Start Page** |
|  | 9 – 25 | Biochemistry | 25 |
|  | 33 – 49 | The Cell | 50 |
|  | 57 – 65 | Cell Respiration | 66 |
|  | 73 – 82 | Photosynthesis | 83 |
|  | 89 – 96 | Cell Division | 97 |
|  | 105 – 120 | Heredity | 121 |
|  | 129 – 148 | The Molecular Basis of Inheritance | 149 |
|  | 159 – 171 | Classification | 172 |
|  | 177 – 194 | Evolution | 195 |
|  | 203 – 218 | Plants | 219 |
|  | 225 – 252 | Human Physiology | 253 |
|  | 267 – 275 | The Human Immune System | 276 |
|  | 281 – 290 | Animal Reproduction & Development | 291 |
|  | 299 – 316 | Ecology | 317 |
|  | 325 – 330 | Animal Behavior | 330 |
|  | 335 – 357 | Investigations | 357 |

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| **Inquiry Diagrams** |
| 10 pts(2 pts each) | *You may complete 5 inquiry diagrams from the inquiry diagram list. Diagrams should fill a 8.5 x 11 piece of non-lined paper (preferably copy paper). Diagrams must be hand-drawn, in color, and labeled. You are to explain the experiment, discuss results/conclusion, diagram (drawing diagram or graphing data), and answering the “what if” question.* *\*****Note****: This cannot be diagrams that has been completed by you in the Quant Project\***STUDENT CHOICE ASSIGNMENT*  |
| **✓** | **Diagram:** (write which diagrams you did below) |
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| **Exploring Diagrams** |
| 15 pts(5 pts each) | *Diagrams should fill a 8.5 x 11 piece of non-lined paper (preferably copy paper). Diagrams must be hand-drawn, in color, labeled and have a 1 paragraph explanation relating the concepts to another concept in AP Biology.**STUDENT CHOICE ASSIGNMENT* |
| **✓** | **Diagram:** (write which diagrams you did below) |
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| **Research Method Diagrams** |
| 6 pts(2 pts each) | *Diagrams should fill a 8.5 x 11 piece of non-lined paper (preferably copy paper). Diagrams must be hand-drawn, in color, labeled and have a 1 paragraph explanation uses for the methods.**STUDENT CHOICE ASSIGNMENT* |
| **✓** | **Diagram:** (write which diagrams you did below) |
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| **Mastering Biology** |
| 40 pts | *Students select from list of Mastering Biology activities, tutorial, animations, etc. under assignments “AP Biology Exam Review Project”. Each item has a deemed point value. Complete the activities and questions you need to review. Grade will be based on student grade on item multiplied by the point value [Example: 90% on 1.2 pt item: 0.9 \* 1.2 = 1.08pts]. You may complete up to 40 points**STUDENT CHOICE ASSIGNMENT* |
| **✓** |  |
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| **itsLearning Barron’s Practice Exams** |
| 12 pts(6 pts each) | *Complete the online itsLearning Barron’s Practice Test.* |
| **✓** |  |
|  | Practice Test 1 |
|  | Practice Test 2 |

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| **Numeric Response**  |
| 20 pts | *Complete the numeric response section found in itsLearning Review Notebook folder as pdfs for you. You are required to answer the question and SHOW work. After completion, check/correct your answers using another color pen/marker with the key located in Mrs. Jones’s classroom.**STUDENT CHOICE ASSIGNMENT* |
| **✓** |  |
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| **Problem-Solving Exercises**  |
| 12 pts(2 pts each) | *Complete the problem-solving exercises found in itsLearning Review Notebook folder as pdfs for you. You are required to answer the questions. After completion, check/correct your answers using another color pen/marker with the key located in Mrs. Jones’s classroom.**Required to complete 4; student choice to complete other 4.* |
| **✓** |  |
|  | Ch. 5: Are you a victim of fish fraud? |
|  | Ch. 11: Can a skin wound turn deadly? |
|  | Ch. 17: Are insulin mutations the cause of three infants’ neonatal diabetes? |
|  | Ch. 24: Is hybridization promoting insecticide resistance in mosquitoes that transmit malaria? |
|  | Ch. 34: Can declining amphibian populations be saved by a vaccine? |
|  | Ch. 39: How will climate change impact crop productivity? |
|  | Ch. 45: Is thyroid regulation normal in this patient? |
|  | Ch. 55: Can an insect outbreak threaten a forest’s ability to absorb CO2 from the atmosphere? |