



AP Biology AP Exam Review Notebook



Assigned: 2/15

Due: 5/14 @ 8:00 AM (Note: 2 day LATE submission due 5/16 @ 8:00 AM)

You will be compiling a review “notebook” to assist you to prepare for the Ga Milestone (5/7) and AP Exam (5/16). This assignment will be a summative grade (250 points). The following are the items that are to be completed and placed into your review notebook. Extra credit may be given for completion of extra items. The 2 day late RCPS protocol allows this assignment to be submitted late by Thursday, May 16th at 8:00AM!

The notebook is due on **Wednesday, May 14, 2023 by 8:00am.**

Your official “notebook” will be housed in a notebook of your choosing. Each Friday, you will submit your completed tasks from the week in your TITD folders. After the paper is checked, you will place it into the appropriate location in your notebook. Some of the assignments require screenshots. You will submit these through the OneNote notebook. I advise that you sync after any modifications that you make to ensure that Mrs. Jones has the most up to date version of your OneNote notebook. You will submit the entire notebook on the due date. I have created specific dates for the required tasks to assist with pacing (see calendar) but you will not have a point reduction if the tasks are completed by the final due date.


Resource Key			
Albert.io	A	Mastering Biology	M
Barron’s	B	YouTube	Y
AP Classroom	APC	Jones Classroom	J
Canvas	C	Progress Learning	PL


You must complete a total of 250 points!


Required Items				Student Choice			
✓		Item	Points	✓		Item	
	C	AP Diagnostic Test	5 pts			AP Biology Practice Exam	10 pts
	PL	Progress Learning Diagnostic Test	5 pts		B	Barron’s Practice Exam	10 pts
	PL	Progress Learning Section Quizzes	12 pts		J	Released AP Exam	10 pts
	PL	Progress Learning EOCT Practice Exam	5 pts		M	Mastering Biology	20 pts
	J	Released AP Exam (1)	10 pts		C	Numeric Response	20 pts
	Y/C	Science Practices	21 pts		B	Inquiry Diagrams	10 pts
	APC	AP Classroom – PPCs	18 pts		A	Albert.io Practice Exam	5 pts
	APC	AP Classroom – Unit Topic Quiz	16 pts		C	Barron’s Practice Test (2)	10 pts
	M	Solve-It (9)	9 pts		C	AP Classroom Video	16 pts
	B	Barron’s Practice Exam (1)	10 pts		C	AP Review Guide – MC	16 pts
	C	Scientific Skills MC Practice	10 pts		C	AP Review Guide – FRQ	10 pts
	A	Albert.io Practice Exam	5 pts				
	A	Albert.io Lab Review	10 pts				
	B	Barron’s Section Reviews	69 pts				
	B	Barron’s Unit Quiz	16 pts				
Total Points: 220 points				Total Points: 137 points (choose 30 points) *Note: due to the score requirement on you might need to do additional points from this section*			


✓	Week #	Items to be Completed
	Week 1 (2/26 – 3/1)	<input type="checkbox"/> Barron’s Diagnostic Test – Canvas <input type="checkbox"/> Solve It #1 – Mastering Biology <input type="checkbox"/> Barron’s Statistics Review (Section 2) <input type="checkbox"/> Ga Milestone Diagnostic Test – Progress Learning (PL)
	Week 2 (3/4 – 3/8)	<input type="checkbox"/> Big Idea #1 Labs – Albert.io <input type="checkbox"/> Science Practice #1 Video – Canvas <input type="checkbox"/> APC Unit 1 Progress Performance Check & Topic Quiz <input type="checkbox"/> Solve It #2 – Mastering Biology <input type="checkbox"/> Barron’s Unit 1 Review (Section 3 & 4) <input type="checkbox"/> Structure & Function of Cells Domain Test – Progress Learning <input type="checkbox"/> Barron’s Unit 1 Quiz
	3/8	CHECKPOINT #1: 20 Points
	Week 3 (3/11 – 3/15)	<input type="checkbox"/> Big Idea #2 Labs – Albert.io <input type="checkbox"/> Science Practice #2 Video – Canvas <input type="checkbox"/> APC Unit 2 Progress Performance Check & Topic Quiz <input type="checkbox"/> Solve It #3 – Mastering Biology <input type="checkbox"/> Barron’s Unit 2 Review (Section 5 & 6) <input type="checkbox"/> Genetic Information of Cells Domain Test – Progress Learning <input type="checkbox"/> Barron’s Unit 2 Quiz
	Week 4 (3/18 – 3/22)	<input type="checkbox"/> Practice Test – Barron’s <input type="checkbox"/> Science Practice #3 Video – Canvas <input type="checkbox"/> APC Unit 3 Progress Performance Check & Topic Quiz <input type="checkbox"/> Solve It #4 – Mastering Biology <input type="checkbox"/> Barron’s Unit 3 Review (Section 7 – 9) <input type="checkbox"/> Genetics Domain Test – Progress Learning <input type="checkbox"/> Barron’s Unit 3 Quiz
	Week 5 (3/25 – 3/29)	<input type="checkbox"/> Big Idea #3 Labs – Albert.io <input type="checkbox"/> Science Practice #4 Video – Canvas <input type="checkbox"/> APC Unit 4 Progress Performance Check & Topic Quiz <input type="checkbox"/> Solve It #5 – Mastering Biology <input type="checkbox"/> Barron’s Unit 4 Review (Section 10 & 11) <input type="checkbox"/> Organisms Domain Test – Progress Learning <input type="checkbox"/> Barron’s Unit 4 Quiz
	3/28	CHECKPOINT #2: 100 Points
	Week 6 (4/8 – 4/12)	<input type="checkbox"/> Big Idea #4 Labs – Albert.io <input type="checkbox"/> Science Practice #5 Video – Canvas <input type="checkbox"/> APC Unit 5 Progress Performance Check & Topic Quiz <input type="checkbox"/> Solve It #6 – Mastering Biology <input type="checkbox"/> Barron’s Unit 5 Review (Section 12 – 14) <input type="checkbox"/> Interdependence of Organisms Domain Test – Progress Learning <input type="checkbox"/> Barron’s Unit 5 Quiz
	Week 7 (4/15 – 4/19)	<input type="checkbox"/> Scientific Skills Exercise – Canvas <input type="checkbox"/> Science Practice #6 Video – Canvas <input type="checkbox"/> APC Unit 6 Progress Performance Check & Topic Quiz <input type="checkbox"/> Solve It #7 – Mastering Biology <input type="checkbox"/> Barron’s Unit 6 Review (Section 15 – 18) <input type="checkbox"/> Evolution Domain Test – Progress Learning <input type="checkbox"/> Barron’s Unit 6 Quiz
	4/20	<input type="checkbox"/> AP Biology Practice Exam (<i>student choice</i>)
	Week 8 (4/22 – 4/26)	<input type="checkbox"/> Practice Exam – Albert.io <input type="checkbox"/> Science Practice #7 Video – Canvas

		<input type="checkbox"/> APC Unit 7 Progress Performance Check & Topic Quiz <input type="checkbox"/> Solve It #8 – Mastering Biology <input type="checkbox"/> Barron’s Unit 7 Review (Section 19 – 21) <input type="checkbox"/> Released Practice AP Exam <input type="checkbox"/> Barron’s Unit 7 Quiz
	Week 9 (4/30 – 5/3)	<input type="checkbox"/> APC Unit 8 Progress Performance Check & Topic Quiz <input type="checkbox"/> Solve It #9 – Mastering Biology <input type="checkbox"/> Barron’s Unit 8 Review (Section 22 – 23) <input type="checkbox"/> Practice Milestone Exam – Progress Learning <input type="checkbox"/> Barron’s Unit 8 Quiz
	5/3	CHECKPOINT #3: 175 Points
	Week 10 (5/6 – 5/10)	<input type="checkbox"/> Barron’s Lab Review (Section 24) <u>Student Choice Assignments:</u> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	5/14	Completed Review Notebook due to Mrs. Jones by 8:00 am 250 POINTS GOING IN GRADEBOOK
	5/16	Late Submission due to Mrs. Jones by 8:00 am

Diagnostic Test (AP Exam) – A 				
5 pts	<p>You must complete the Barron's diagnostic test (posted on Canvas in the <u>Review Notebook</u> folder). You are <u>only</u> required to answer the questions check/correct your answers with another color and determine your scores for the following sections. Identify the 4 areas you feel you should work on from the topics below:</p> <p style="text-align: center;">Due: 2/26</p>			
	Barron's	Number Incorrect	Score: (%)	Work on! (✓)
	Biochemistry & Enzymes			
	Cells & Cell Division			
	Cell Respiration & Photosynthesis			
	Heredity & Molecular Genetics			
	Classification & Evolution			
	Animals			
	Plants			
	Ecology			

Diagnostic Test (Ga Milestone) – B 						
5 pts	<p>You must complete the Progress Learning diagnostic test (created as an assignment on your account). You only need to respond on the Progress Learning website. After completion of the diagnostic test, fill in the following chart with your scores.</p> <p style="text-align: center;">Due: 3/1</p>					
Overall	Structure of Cells	Interdependence of Organisms	Genetics	Genetic Information in Cells	Evolution	Organisms

Barron's Practice Exams – C 	
20 pts (10 pts each)	<p>Complete the practice test from the Barron's book (back of book) – complete multiple choice and numeric response (free response is at your discretion and is <u>not required</u>). You are only required to answer the question and write an explanation for YOUR answer. After completion, check/correct your answers with another color.</p> <p style="text-align: center;">*Note: one is <u>required</u>, one is student choice*</p> <p style="text-align: center;">Due: 3/18</p>
✓	
	Practice Test 1
	Practice Test 2

Progress Learning Ga Milestone Review – D 						
12 pts (2 pts each)	<p>Using Progress Learning, 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.</p>					
	Structure of Cells	Genetic Information in Cells	Genetics	Organisms	Interdependence of Organisms	Evolution
DUE:	3/8	3/15	3/22	3/29	4/12	4/19

Released AP Exams – E	
20 pts (10 pts each)	<p>Complete the released exams from 2013 – 2016. These are found in my classroom in the filing cabinet. You are required to answer the question and write an explanation for the answer. After completion, correct your answers using another color.</p> <p>*Note: one is required, a second one is student choice*</p> <p style="text-align: center;">Due: 4/26</p>
✓	
	2013
	2014
	2015
	2016

Progress Learning Ga Milestone Practice Exam – G					
5 pts	<p>Using the Progress Learning, complete the “Full Test” for the Biology Georgia Milestone End of Course. *NOTE: You must score higher than diagnostic test for full credit*</p> <p style="text-align: center;">Due: 5/3</p>				
✓	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 60%;">Progress Learning</th> <th style="width: 40%;">Score</th> </tr> </thead> <tbody> <tr> <td>Full Test</td> <td></td> </tr> </tbody> </table>	Progress Learning	Score	Full Test	
Progress Learning	Score				
Full Test					

AP Biology Practice Exam – F	
10 pts	<p>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*</p> <p style="text-align: center;">Due: 4/20</p>
✓	
	Released Practice Exam

Science Practices – I																	
21 pts (3 pts each)	<p>Using the YouTube videos linked on Canvas, review the science practices. You must view the video in its entirety and complete all questions on the science practice worksheet.</p>																
✓	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 80%;">Topics</th> <th style="width: 20%;">Due</th> </tr> </thead> <tbody> <tr> <td>SP 1: Models & Representation</td> <td>3/5</td> </tr> <tr> <td>SP 2: Using Mathematics</td> <td>3/12</td> </tr> <tr> <td>SP 3: Scientific Questioning</td> <td>3/19</td> </tr> <tr> <td>SP 4: Data Collection Strategies</td> <td>3/26</td> </tr> <tr> <td>SP 5: Analysis & Evaluation of Evidence</td> <td>4/9</td> </tr> <tr> <td>SP 6: Scientific Explanations & Theories</td> <td>4/16</td> </tr> <tr> <td>SP 7: Scales, Concepts, & Representations</td> <td>4/23</td> </tr> </tbody> </table>	Topics	Due	SP 1: Models & Representation	3/5	SP 2: Using Mathematics	3/12	SP 3: Scientific Questioning	3/19	SP 4: Data Collection Strategies	3/26	SP 5: Analysis & Evaluation of Evidence	4/9	SP 6: Scientific Explanations & Theories	4/16	SP 7: Scales, Concepts, & Representations	4/23
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Numeric Response	
20 pts	<p>Complete the numeric response section found in Canvas <u>Review Notebook</u> folder as pdfs for you. You are required to answer the question and SHOW work. After completion, check/correct answers using the Google Form assignment. This should be hand written and included in your binder.</p> <p style="text-align: center;">STUDENT CHOICE</p>
✓	

AP Classroom – Performance Progress Checks – J				
18 pts (2 pts each)	<p>Using AP Classroom, complete the Performance Progress Checks.</p> <p style="text-align: center;">*NOTE: You must score an 80% or higher for full credit*</p>			
✓	Unit #	DUE	Unit #	DUE
	Unit 1 (18 Qs)	3/6	Unit 5 (24 Qs)	4/10
	Unit 2 (30 Qs)	3/13	Unit 6 (24 Qs)	4/17
	Unit 3 (21 Qs)	3/20	Unit 7 (42 Qs)	4/24
	Unit 4 (24 Qs)	3/27	Unit 8 (21 Qs)	5/1

Mastering Biology	
10 pts	<p>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: $0.9 * 1.2 = 1.08$pts]. You may complete up to 10 points.</p> <p style="text-align: center;">STUDENT CHOICE</p>
✓	


Albert.io Lab Review		
10 pts	<p>Complete the albert.io Lab Review assignment on Albert.io</p> <p style="text-align: center;">*NOTE: You must score an 80% or higher for full credit*</p> <p style="text-align: center;">Class Code:</p>	
✓		Due:
	Big Idea 1 (46 questions) – 3 pts	3/4
	Big Idea 2 (34 questions) – 2 pts	3/11
	Big Idea 3 (27 questions) – 2 pts	3/25
	Big Idea 4 (45 questions) – 3 pts	4/8


Albert.io Practice Exam		
5 pts (5 pts each)	<p>Using Albert.io, complete the AP Biology Review Notebook – Practice Exam</p> <p style="text-align: center;">STUDENT CHOICE</p> <p style="text-align: center;">*Note: one is <u>required</u>, a second one is student choice*</p> <p style="text-align: center;">*NOTE: You must score an 80% or higher for full credit*</p>	
✓	DUE: 4/29	
	Practice Test #1	Practice Test #2
		Practice Test #3


Barron's (2024) Section Quizzes





69 pts (3 pts each)	<i>Read the section from the Barron's book and take ONE page of notes or create a ONE pager sketch note (1 pt). Complete the section quiz from Barron's (2 pts) – complete multiple choice (free response is at your discretion and is <u>not required</u>). You are only required to answer the question and write an explanation for YOUR answer. After completion, check/correct your answers with another color pen/marker.</i>			
✓	Reading Pages	Section	Due	Question Start Page
	11 – 18	2. Statistics in AP Biology	2/29	19
	29 – 32	3. Water	3/7	33
	39 – 44	4. Macromolecules	3/7	45
	55 – 66	5. Cell Organelles, Membranes, and Transport	3/14	67
	75 – 78	6. Movement of Water in Cells	3/14	79
	89 – 93	7. Enzymes	3/21	94
	103 – 106	8. Photosynthesis	3/21	107
	115 – 120	9. Cellular Respiration	3/21	121
	129 – 133	10. Cell Communication and Signaling	3/28	134
	141 – 144	11. The Cell Cycle	3/28	145
	155 – 159	12. Meiosis and Genetic Diversity	4/11	160
	167 – 171	13. Mendelian Genetics and Probability	4/11	172
	179 – 181	14. Non-Mendelian Genetics	4/11	182
	193 – 196	15. DNA, RNA, and DNA Replication	4/18	197
	205 – 210	16. Transcription and Translation	4/18	211
	217 – 221	17. Regulation and Mutations	4/18	222
	229 – 231	18. Biotechnology	4/18	232
	241 – 247	19. Types of Selection	4/25	248
	257 – 261	20. Population Genetics	4/25	262
	271 – 275	21. Phylogeny, Speciation, and Extinction	4/25	276
	287 – 291	22. The Basics of Ecology	5/2	292
	301 – 306	23. Population Ecology, Community Ecology, and Biodiversity	5/2	307
	315 – 333	24. Labs	5/9	334


Barron's (2024) Unit Quizzes 		
(16 pts) 2 pt each	<i>After completing the section reviews, you will complete a Unit Quiz on Canvas. This will be found in the <u>Review Notebook</u> on Canvas. You are only required to complete the online quiz. *NOTE: You must score an 80% or higher for full credit*</i>	
✓		Due
	Unit 1: Chemistry of Life	3/8
	Unit 2: Cell Structure and Function	3/15
	Unit 3: Cellular Energetics	3/22
	Unit 4: Cell Communication and Cell Cycle	3/29
	Unit 5: Heredity	4/12
	Unit 6: Gene Expression and Regulation	4/19
	Unit 7: Natural Selection	4/26
	Unit 8: Ecology	5/3

Barron's Additional Practice Exams 		
10 pts (5 pts each)	<i>Using Canvas, complete the Barron's Additional Practice Test. *NOTE: You must score an 80% or higher for full credit*</i>	
✓	<i>STUDENT CHOICE</i>	
	Practice Test 1	
	Practice Test 2	

Solve-It Exercises 		
9 pts (1 pts each)	<i>Complete the solve-it assignment found on Mastering Biology. You are required to complete the online assignment questions and activities. *NOTE: You must score an 90% or higher for full credit*</i>	
✓		DUE
	Ch. 5: Which biofuel has the most potential to reduce our dependence on fossil fuels?	2/29
	Ch. 11: Is it possible to treat bacterial infections without antibiotics?	3/7
	Ch. 17: Which insulin mutation may result in disease?	3/14
	Ch. 23: Do cockroaches evolve in response to living with humans?	3/21
	Ch. 26: Are you getting the fish you paid for?	3/28
	Ch. 38: Why are honeybees vanishing?	4/11
	Ch. 45: Does sex determination have only two possible outcomes?	4/18
	Ch. 48: What is causing episodes of muscle weakness in a patient?	4/25
	Ch. 54: How can severity of forest fires be reduced?	5/2

AP Classroom Topic Quizzes & Topic Videos 			
(32 pts) 16 pts *req'd*	<p>Using AP Classroom, complete the Topic Quizzes (2 pts/each) - required. Afterwards, determine your weakest sections and watch the Topic Videos for those topics and answer the video questions (1 pts/each) – student choice.</p> <p><i>*up to 2 topics videos per unit*</i></p> <p>*NOTE: You must score an 80% or higher for full credit*</p>		
✓			
	Unit 1 Topic Quiz	3/6	Unit 1 Topic Videos
	Unit 2 Topic Quiz	3/13	Unit 2 Topic Videos
	Unit 3 Topic Quiz	3/20	Unit 3 Topic Videos
	Unit 4 Topic Quiz	3/27	Unit 4 Topic Videos
	Unit 5 Topic Quiz	4/10	Unit 5 Topic Videos
	Unit 6 Topic Quiz	4/17	Unit 6 Topic Videos
	Unit 7 Topic Quiz	4/24	Unit 7 Topic Videos
	Unit 8 Topic Quiz	5/1	Unit 8 Topic Videos

AP Biology Review Guide – Multiple Choice 	
(16 pts) 2 pt each	<p>Using AP Biology Review Guide, complete the multiple choice practice questions. You are only required to answer the question and write an explanation for the answer. After completion, check/correct your answers with another color.</p> <p>STUDENT CHOICE</p>
✓	
	Unit 1: Chemistry of Life (18)
	Unit 2: Cell Structure and Function (23)
	Unit 3: Cellular Energetics (35)
	Unit 4: Cell Communication and Cell Cycle (24)
	Unit 5: Heredity (26)
	Unit 6: Gene Expression and Regulation (41)
	Unit 7: Natural Selection (38)
	Unit 8: Ecology (37)

AP Biology Review Guide – Free Response 	
(10 pts)	<p>Using AP Biology Review Guide, select a Free Response question to practice. You will write your free response using COMPLETE sentences and thoroughly answer the question. Then, using the scoring guidelines correct your response in another color.</p> <p>STUDENT CHOICE</p>
✓	
	Long FRQ = 1 point
	Short FRQ = 0.5 point