

August 2011 – May 2012
Class Time: 1:00 – 2:30/3:00

Kingdom Builders Homeschool Cooperative
www.kingdombuilderscoop.com

Biology

Students need to complete **all** the reading and homework assignments AT HOME. Please review the Lab Report Template (to be sent separately) and keep it for reference for use with every lab write-up. On days in which we take a test in class and have labs to perform, we may be in class until 2:45 or 3:00. Please refer to the syllabus and plan for this.

The following items are to be done **outside** of class:

- On Your Own (OYO) questions- interspersed throughout each module
- Study Guide (SG) questions- located at the end of each module
- Summary of Module (SoM) questions- located in Appendix B
- Some module tests and lab experiments (when noted in syllabus)

You are strongly encouraged to adhere to the attached schedule so that you will be thoroughly prepared. Homework will be checked each week.

Science Fair/Final Test: All Biology students who participate in the FEFC Science Fair will automatically receive a 100% for their Module 16 test (provided they also complete all Module 16 homework and labs listed in this syllabus).

All tests and labs completed at home must be proctored and signed by a parent.

Many extra credit lab opportunities are listed in the syllabus. I strongly suggest you take advantage of these opportunities!

Grading Scale	Tests	50%
	Homework	20%
	Lab Notebook	30%

- Apologia Exploring Creation with Biology, 2nd edition, ISBN 1-932012-54-0
- Apologia Exp. Creation with Biology Solutions & Tests Manual ISBN 1-932012-55-9
- Apologia Exp. Creation with Biology Companion CD (optional)
- Lab notebook (notebook or 3-ring binder)
- 1 ½ or 2 inch binder for homework/class notes (lap book is optional)
- 2 pencils or pens
- Some at-home experiments will require common household supplies

You must bring text book, pens/pencils, lab notebook and homework binder/lap book to class EACH Friday

Instructor Contact:

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Biology students should have a cooperative attitude and a willingness to learn and work hard. You are expected to behave as young adults, treating your instructor and the other students with respect.

Course Objectives

- To understand and apply classification schemes and terminology
- To begin and maintain a lab notebook
- To gain knowledge of biology, scientific method, and microscopy
- To apply concepts by performing experiments and dissections

Course Prerequisites

- None

Exploring Creation with Biology- 2nd Edition

Please note that we are meeting on Fridays. The expectation is that the student will have read and completed assignments prior to coming to class. **This includes the first week of class.**

Week 1 (Class date August 26, 2011)

- Mon** Read and do OYO pp. 1-11
- Tue** Read and do OYO pp. 12-23
- Wed** Read and do OYO pp. 24-32
- Thu** Complete module 1 SG and SoM; complete Experiment 1.1 at home and write prelab for Exp. 1.2
- Fri-CLASS** Discuss course and homework; do Exp 1.2

Week 2 (Class date September 2, 2011)

- Mon** Study for mod 1 test; read and do OYO pp. 37-44; complete Exp 2.1 and record in lab notebook (**you will be bringing jars to class on Friday!**)
- Tue** Study for mod 1 test; read and do OYO pp. 44(bottom)-51
- Wed** Study for mod 1 test; read and do OYO pp. 52-62
- Thu** Study for mod 1 test; complete module 1 SG and SoM; write prelab for Exp. 2.1 and 2.2
- Fri-CLASS** Take Mod 1 test; **bring in jars from Exp 2.1**; discuss homework; do lab 2.2

Week 3 (Class date September 9, 2011)

- Mon** Study for mod 2 test; read and do OYO pp. 67-70
- Tue** Study for mod 2 test; read and do OYO pp. 71-73
- Wed** Study for mod 2 test; read and do OYO pp. 74-79(middle of page)
- Thu** Study for mod 2 test; do SG 1(a-o)-11 and SoM 1-12; write prelab for Exp. 3.1
- Fri-CLASS** Take Mod 2 test; **bring in jars from Exp 2.1**; discuss homework; do lab 3.1

Week 4 (Class date September 16, 2011)

- Mon** Read and do OYO pp. 79-83
- Tue** read and do OYO pp. 84-88 (middle)
- Wed** read and do OYO pp. 88-92
- Thu** Answer remaining OYO, SG, and SoM questions; write prelabs for labs 3.2 and 3.3
- Fri-CLASS** Discuss module and homework; do lab 3.2 and 3.3. Mod 3 test will be sent home and will be **due on September 30th** (it must be proctored by a parent)

September 23rd Fall Break- Remember: Test due Sept 30th (it must be proctored by a parent)

Week 5 (Class date September 30, 2011)

- Mon** Read and do OYO pp. 97-102 (top)
- Tue** Read and do OYO pp. 102-106 (top)
- Wed** Read and do OYO pp. 106-110
- Thu** Gather mushrooms for Exp. 4.1 and **bring to class tomorrow**, write prelabs for labs 4.1 and 4.2, do SG 1(a-k)-12 and SoM 1-12
- Fri-CLASS** Turn in mod 3 test! Discuss module and homework; do lab 4.1 and 4.2

Week 6 (Class date October 7, 2011)

- Mon** Read and do OYO pp. 111-113
- Tue** Read and do OYO pp. 114-117 (middle)
- Wed** Read and do OYO pp. 117-120
- Thu** Answer remaining OYO, SG, and SoM questions; write prelabs for labs 4.3 and 4.4
- Fri-CLASS** Discuss module and homework; do labs 4.3 and 4.4

Week 7 (Class date October 14, 2011)

- Mon** Study for mod 4 test; read and do OYO pp. 125-128
- Tue** Study for mod 4 test; read and do OYO pp. 129-133
- Wed** Study for mod 4 test; read and do OYO pp. 134-138
- Thu** Study for mod 4 test; **complete Exp. 5.2 at home**; write prelab for Exp 5.1; do SG 1(a-k)-12 and SoM 1-12
- Fri-CLASS** Take mod 4 test; discuss module and homework; do lab 5.1

Week 8 (Class date October 21, 2011)

- Mon** Read and do OYO pp. 139-143
- Tue** Read and do OYO pp. 144-149
- Wed** Read and do OYO pp. 150-156
- Thu** Answer remaining OYO, SG, and SoM questions; write prelab for lab 5.3
- Fri-CLASS** Discuss module and homework; do lab 5.3

Week 9 (Class date October 28, 2011)

- Mon** Study for mod 5 test; read and do OYO pp. 161-164
- Tue** Study for mod 5 test; read and do OYO pp. 165-168
- Wed** Study for mod 5 test; read and do OYO pp. 169-175
- Thu** Study for mod 5 test; write prelab for Exp 6.1; do SG 1(a-jj)-8 and SoM #21 only
- Fri-CLASS** Take mod 5 test; discuss module and homework; do lab 6.1

Week 10 (Class date November 4, 2011)

- Mon** Read and do OYO pp. 176-179
- Tue** Read and do OYO pp. 180-184
- Wed** Read and do OYO pp. 185-189
- Thu** Answer remaining OYO, SG, and SoM questions; write prelab for lab 6.2
- Fri-CLASS** Discuss module and homework; do lab 6.2

Week 11 (Class Date November 11, 2011)

- Mon** Study for mod 6 test; read and do OYO pp. 195-197
- Tue** Study for mod 6 test; read and do OYO pp. 198-200
- Wed** Study for mod 6 test; read and do OYO pp. 201-204
- Thu** Study for mod 6 test; prelab for Exp 7.1; do SG 1(a-h)-6 and SoM 1-13
- Fri-CLASS** Take mod 6 test; discuss module and homework; do lab 7.1

Week 12 (Class Date November 18, 2011)

- Mon** Read and do OYO pp. 205-210
- Tue** Read and do OYO pp. 211-216
- Wed** Read and do OYO pp. 217-222
- Thu** Answer remaining OYO, SG, and SoM questions; write prelab for lab 7.2
- Fri-CLASS** Discuss module and homework; do lab 7.2. Mod 7 test will be sent home and will be **due on Dec 2nd** (it must be proctored by a parent)

November 25th Thanksgiving Break- Remember: Test due Dec 2nd (must be proctored by a parent)

Week 13 (Class Date December 2, 2011)

Mon Read and do OYO pp. 227-231

Tue Read and do OYO pp. 232-238 (middle)

Wed Read and do OYO pp. 238-242

Thu Do Exp. 8.1 **at home**; do SG 1(a-j)-7 and SoM 1-6 **Exp 8.4 may be completed at home for 20 points **extra credit** (lab credit) Begin today so you have time to complete it and turn in your results next Friday (Dec 9th)**

Fri-CLASS Turn in mod 7 test! Discuss module and homework

Week 14 (Class Date December 9, 2011)

Mon Read and do OYO pp. 243-247

Tue Read and do OYO pp. 248-251

Wed Read and do OYO pp. 252-256

Thu Do Exp. 8.2 and 8.3 **at home**; answer remaining OYO, SG, and SoM questions

Fri-CLASS Discuss module and homework; Mod 8 test will be sent home and will be **due on Jan 13th** (it must be proctored by a parent) I **strongly** suggest you take the test on or around Dec 12th while the information is still fresh in your mind ☺

Christmas Break- Remember: Test due Jan 13th (must be proctored by a parent)

****I strongly suggest you begin homework for Module 9 on Jan 4th or 5th instead of waiting until the 9th.**

Week 15 (Class Date January 13, 2012)

Mon Read and do OYO pp. 261-271

Tue Read and do OYO pp. 272-282

Wed Read and do OYO pp. 283-294

Thu Answer all SG, and SoM questions for module 9

Fri-CLASS Turn in mod 8 test! Discuss module and homework

Week 16 (Class Date January 20, 2012)

Mon Study for mod 9 test; read and do OYO pp. 299-303

Tue Study for mod 9 test; read and do OYO pp. 304-308

Wed Study for mod 9 test; read and do OYO pp. 309-313

Thu Study for mod 9 test; do SG 1(a-l)-9 and SoM 1-9

Fri-CLASS Take mod 9 test; discuss module and homework

Week 17 (Class Date January 27, 2012)

Mon Read and do OYO pp. 314-318

Tue Read and do OYO pp. 319-321

Wed Read and do OYO pp. 322-324

Thu Answer remaining OYO, SG, and SoM questions; write prelab for 10.1

Fri-CLASS Discuss module and homework; do lab 10.1

Week 18 (Class Date February 3, 2012)

Mon Study for mod 10 test; read and do OYO pp. 329-332

Tue Study for mod 10 test; read and do OYO pp. 333-336

Wed Study for mod 10 test; read and do OYO pp. 337-342 (top)

Thu Study for mod 10 test; do SG 1(a-q)-13 and SoM 1-8; write prelabs for 11.1, 11.2, and 11.4

Fri-CLASS Take mod 10 test; do labs 11.1, 11.2, and 11.4; discuss module and homework

Week 19 (Class Date February 10, 2012)

- Mon** Read and do OYO pp. 342-345
- Tue** Read and do OYO pp. 346-350
- Wed** Read and do OYO pp. 351-356
- Thu** Answer remaining OYO, SG, and SoM questions; write prelab for 11.3
- Fri-CLASS** Do lab 11.3; discuss module and homework; mod 11 test will be sent home and will be **due on Feb 24th** (it must be proctored by a parent)

February 17th Teen Pact Break- Remember: Test due Feb 24th (must be proctored by a parent)

Week 20 (Class Date February 24, 2012)

- Mon** Read and do OYO pp. 361-364
- Tue** Read and do OYO pp. 365-368
- Wed** Read and do OYO pp. 369-372
- Thu** Do SG 1(a-j)-9 and SoM 1-7; write prelab for 12.1
- Fri-CLASS** Turn in mod 11 test! Do lab 12.1; discuss module and homework

Week 21 (Class Date March 2, 2012)

- Mon** Read and do OYO pp. 376-379
- Tue** Read and do OYO pp. 380-384
- Wed** Read and do OYO pp. 385-389
- Thu** Answer remaining OYO, SG, and SoM questions; write prelab for 12.2
- Fri-CLASS** Do lab 12.2; discuss module and homework

Week 22 (Class Date March 9, 2012)

- Mon** Study for mod 12 test; read and do OYO pp. 393-399
- Tue** Study for mod 12 test; read and do OYO pp. 400-407
- Wed** Study for mod 12 test; read and do OYO pp. 408-413
- Thu** Study for mod 12 test; do SG 1(a-y)-20 and SoM 1-11; write prelab for 13.1
- Fri-CLASS** Take mod 12 test; do lab 13.1; discuss module and homework

Week 23 (Class Date March 16, 2012)

- Mon** Read and do OYO pp. 414-416
- Tue** Read and do OYO pp. 419-420
- Wed** Read and do OYO pp. 421-423
- Thu** Answer remaining OYO, SG, and SoM questions (no prelab required this week) You may complete the Field Study Lab on pp. 422-423 for 20 points **extra credit** (lab credit)
- Fri-CLASS** Do frog dissection lab; discuss module and homework

Week 24 (Class Date March 23, 2012)

- Mon** Study for mod 13 test; read and do OYO pp. 429-432
- Tue** Study for mod 13 test; read and do OYO pp. 433-437
- Wed** Study for mod 13 test; read and do OYO pp. 438-442 (middle- through OYO)
- Thu** Study for mod 13 test; do SG 1(a-l)-11 and SoM 1-6; write prelab for 14.1. You may complete Exp 14.2 for 20 points **extra credit** (lab credit). You may turn it in either this week (the 23rd) or next week (the 30th)
- Fri-CLASS** Take mod 13 test; do lab 13.1; discuss module and homework

Week 25 (Class Date March 30, 2012)

Mon Read and do OYO pp. 442-447

Tue Read and do OYO pp. 448-453

Wed Read and do OYO pp. 454-458

Thu Answer remaining OYO, SG, and SoM questions; write prelab for 14.3

Fri-CLASS Do lab 14.3; discuss module and homework; mod 14 test will be sent home and will be **due on Apr 13th** (it must be proctored by a parent)

April 6th Easter Break- Remember: Test due Apr 13th (must be proctored by a parent)

Week 26 (Class Date April 13, 2012)

Mon Read and do OYO pp. 463-466

Tue Read and do OYO pp. 467-470

Wed Read and do OYO pp. 471-475 (through OYO)

Thu Do SG 1(a-i)-8 and SoM 1-9; write prelab for 15.1

Fri-CLASS Turn in mod 14 test! Do lab 15.1; discuss module and homework

Week 27 (Class Date April 20, 2012)

Mon Read and do OYO pp. 475-480

Tue Read and do OYO pp. 481-485

Wed Read and do OYO pp. 486-490

Thu Answer remaining OYO, SG, and SoM questions; write prelab for 15.2

Fri-CLASS Do lab 15.2; discuss module and homework

Week 28 (Class Date April 27, 2012)

Mon Study for mod 15 test; read and do OYO pp. 495-499

Tue Study for mod 15 test; read and do OYO pp. 500-503

Wed Study for mod 15 test; read and do OYO pp. 504-508

Thu Study for mod 15 test; do SG 1(a-d)-9 and SoM 1-10

Fri-CLASS Take mod 15 test; discuss module and homework

May 4th GHEA Conference Break

Mon Write prelab for 16.1

Tue Read and do OYO pp. 509-512

Wed Read and do OYO pp. 513-516

Week 29 (Class Date May 11, 2012)

Mon Read and do OYO pp. 517-519

Tue Read and do OYO pp. 520-523

Wed Read and do OYO pp. 524-526

Thu Answer remaining OYO, SG, and SoM questions; You may complete Exp 16.2 for 20 points **extra credit** (lab credit). You may turn it in either this week (the 11th) or next week (the 18th)

Fri-CLASS Do lab 16.1; discuss module and homework

Week 30 (Class Date May 18, 2012)

Mon Study for mod 16 test (unless you participated in the science fair)

Tue Study for mod 16 test (unless you participated in the science fair)

Wed Study for mod 16 test (unless you participated in the science fair)

Thu Study for mod 16 test (unless you participated in the science fair)

Fri-CLASS Take mod 16 test (except those who participated in the science fair). Dissect fetal pigs (no prelabs to be written for this lab). Those **not** taking the mod 16 test may arrive for class at **1:30** today!

Friday May 18, 2012 Last Day of Class, End of Session