

# Biology Syllabus 2015-2016

(Revised 08/07/2015)

Week	Date	Text Chapter	Lab	Class Topics/Labs	Test/Quiz Turn In	Homework to do before class day.
1	8/12	1-Science of Biology	1	Living, Non-living or Dead? , Lab skills 5 – Microscope use, scientific method		<input type="checkbox"/> 8/5 Wed section 1-1, Q. 1-5. <input type="checkbox"/> 8/6 Thursday section 1-2, Q. 1-4. <input type="checkbox"/> 8/7 Friday section 1-3, Q 1-6. <input type="checkbox"/> 8/10 Mon section 1-4, Do “Analyzing Data”, pg 27. <input type="checkbox"/> 8/11 Tuesday Do questions pg. 31-32 #1-30 & STP (Standard Test Prep)
2	8/19	2-Chemistry of Life	2 & pg. 54 liver lab if have time	Identify Organic Compounds: lipids, carbs, proteins	Ch. 1 Quiz in class	<input type="checkbox"/> After class Wed. 2-1 ( <u>answer section Questions each day</u> ) <input type="checkbox"/> Thurs 2-2 <input type="checkbox"/> Friday 2-3 <input type="checkbox"/> Mon 2-4 <input type="checkbox"/> Tues Chapter Asmnt pg 57-59: 1-15, 30, 33, & STP (Lots of new info in this chapter!) Review Chapter 1 for Quiz
3	8/26	7-Cell Structure & Function	pg. 194-195 in text lab 10	Observing Osmosis & Investigating Cell Structures and Processes & elodea	Bring Ch. 2 test	<input type="checkbox"/> After class Wed. Take Ch. 2 test before starting Ch. 7 work! <input type="checkbox"/> Thurs 7-1 <input type="checkbox"/> Fri 7-2 <input type="checkbox"/> Mon 7-3 <input type="checkbox"/> Tues 7-4 & Ch. 7 Asmnt 1-25, 26-29, 33, 34, STP
4	9/2	8-Photosynthesis	8 Pg 206	Effect of Light Intensity on Photosynthesis Quick lab w/elodea pg 206	Ch. 7 test	<input type="checkbox"/> After Class take the Ch 7 test <input type="checkbox"/> Thurs 8-1 <input type="checkbox"/> Fri 8-2 <input type="checkbox"/> Mon 8-3 <input type="checkbox"/> Tue Ch. 8 Asmnt 1-23, 25 discuss in class, 26, 30, STP
5	9/9	9-Cellular Respiration	Quick lab pg 231	Observing Respiration	Ch. 8 test	<input type="checkbox"/> After class take Ch 8 test <input type="checkbox"/> Thurs 9-1 <input type="checkbox"/> Fri 9-2 <input type="checkbox"/> Mon & Tues Ch. 9 Asmnt pg 237, 1-22, <input type="checkbox"/> Tues pg 238, Q 23-29, STP
6	9/16	10-Cell Growth and Division	Pg. 242 Quick Lab	Observe cells in onion root tip, Mitosis, Meiosis	Ch. 9 test	<input type="checkbox"/> After class take the Ch 9 test <input type="checkbox"/> Thurs 10-1 <input type="checkbox"/> Fri 10-2 and Analyzing Data pg 249 Q 1-3 <input type="checkbox"/> Mon 10-3, (Also read section 11-4 on meiosis) <input type="checkbox"/> Tues Ch. 10 Asmnt 1-25, 30, 31, 32, STP
7	9/23	<b>8:30- 3:30</b>	Meet at my house	<u>Field Trip @ Phinzy Swamp-Stream Ecology &amp; Benthic Macroinvertebrates</u>	Ch. 10 test	<input type="checkbox"/> Thurs take the Ch 10 Test <input type="checkbox"/> Fri 11-1 <input type="checkbox"/> Mon 11-2 <input type="checkbox"/> Tue 11-3 <input type="checkbox"/> Wed Field Trip

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8	9/30	11-Intro to Genetics	11	Investigating Inherited Traits/ Dragon Lab		<input type="checkbox"/> Thurs Ch. 11 Asmnt 1-21, 22, 24, <input type="checkbox"/> Fri 25, 26, 27,29, STP – <input type="checkbox"/> Mon & Tues: Punnett Square practice
9	10/7	12-DNA and RNA	12	Modeling DNA & Transcription/ Translation &	Genetic Crosses Quiz	CH 12 Asmnt 1-25, 29, 30, 31, 33, 34, STP
	10/14	<b>Fall Break</b>				
10	10/21	13-Genetic Engineering	13	Extracting DNA, Gel Electrophoresis, DNA Forensics	Ch. 12 test	Ch. 13 Asmnt 1-24, 26, 27, 34, STP
11	10/28	14-Human Genome	14	Quick Lab pg. 351, Karyotypes		Ch. 14 Asmnt 1-22, 23, 25, 26, 29, 30, STP
12	11/4	<b>16-1,16-2,</b> Genes & variations, genetic change	16	Modeling a Gene Pool	Ch. 13/14 test	<ul style="list-style-type: none"> <li>Read <b>16-1, 16-2.</b> Do Ch.16 Asmnt: 1-8, 11-16, 18-20.</li> <li></li> </ul>
13	11/11	<b>18</b> Classification	18		Ch. 16 test	<ul style="list-style-type: none"> <li>Read Assigning Scientific Names &amp; Linnaeus's System in <b>18-1</b>, Evolutionary classification in <b>18-2</b>, all of <b>18-3</b>. Ch.18 Asmnt: 2, 5, 8-10, 13, 14, 21-30, 32, 33. STP: 1-3,6,7</li> </ul>
14	11/18	19-Bacteria & Viruses	19	Controlling Bacterial Growth (2 day-take home) Pg. 521	18 Quiz	Ch.19 Asmnt 1-25, 26, 28, 30, 31, 32, 34, STP
	11/25	<b>Thanksgiving Break</b>				
15	12/2	20-Protista	20	Contracting Vacuoles. Investigating Protista		Ch. 20: skip pg. 505 "Ecology...", skip pg. 512-14 "Reproduction...", pg. 519 "Ecology...", Asmnt Q 1-10& STP Vocabulary wksht
16	12/9	21 Fungi	21	Comparing molds. Set up lab 21. Design experiment. Bring home.		Ch. 21: Asmnt: 1-10, STP vocabulary wksht
	12/16	<b>Semester 1 Exam Chapters 1,2,7-14,16, 18-21 ----- DUE By this Date -----</b>				
	12/23 12/30	<b>Christmas Break End of semester 1</b>				
17	1/6	26-Sponges and Cnidarians	26	Comparing Sponges and Hydras <i>Exam Review jeopardy Quiz Bowl</i>	Ch. 19, 20, 21 Test	Ch 26 Asmnt 1-10, 11, 14, 17,19, 20, 22, 23, 24, STP
18	1/13	27-Worms and Mollusks	27	Comparing Invertebrate Body Plans w/microscope slides/ <b>worm &amp; grasshopper dissection</b>		Ch 27 Asmnt 1-10, 11, 12, 13, 18, 20, 23, 24, 28, 29 STP
19	1/20	28/29 Arthropods and Echinoderms/	29	<b>Crayfish &amp; Starfish dissection</b>		Ch 28 Asmnt 1-10 13,14,15, 16,17, 22, 28, 32 STP Ch 29 Asmnt 1-10, 13, 14, 20, 21, 24, STP

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		Comparing Invertebrates				
20	1/27	30- Nonvertebrate chordates, fish, amphibians	30	<b>Frog Dissection!</b>	Ch 26, 27, 28, 29 Test	Ch 30 Asmnt 1-10, 14-20, 24, STP
21	2/3	31- Reptiles, birds	Pg. 815	Bird bones and feathers.		Ch 31 Asmnt 1-10, 11, 14, 17 ,1-27, 31, 32, 33, STP
22	2/10	32-Mammals		<b>Sheep Brain Dissection</b>	Ch 30 31 Test	Ch 32 Asmnt 1-10, 11, 12, 13, 16, 19, 20, 21, STP
	2/17			<b>Winter Break!</b>		
23	2/24	35-Nervous System	Senses Lab	Testing your sight, hearing, touch, taste, smell. <b>cow eye Dissection</b> (Prepare bone for lab 36)	Ch 32 Test	Ch 35 Asmnt 1-10, 11- 21, STP
24	3/2	36- Skeletal, Muscular, Integumentary systems	36	Learn bones on skeleton, observing bone composition & structure		Ch 36 Asmnt 1-10, 11- 25, 26, 27, STP
25	3/9	37-Circulatory & respiratory system	37	Modeling breathing, Measuring lung capacity, <b>sheep heart dissection</b>	Ch 35/36 Test	Ch 37 Asmnt 1-10, 11-25, 28, 29, 30 STP
26	3/16	38- Digestive & excretory systems	38	Enzyme on food molecules p 990, Simulating urinalysis, <b>kidney dissection</b>		Ch 38 Asmnt 1-10, 11-25, (skip 14), 31 STP
27	3/23	39-Endocrine & Reproductive systems	39	Stress response. Comparing ovaries & testes microscopic slides,	Ch 37/38 Test	Ch 39 Asmnt 1-10, 11-28, 30, 32 STP
28	3/30 (Testing?)	40-Immune system & Disease	40	Immune Response, Disease Detectives/ <b>leaf collection</b>		Ch 40 Asmnt 1-10, 11-26, 33, 34 STP
	4/6			<b>Spring Break</b>		
29	4/13	22	22	Plant Diversity	Ch 39/40 Test	Ch 22 Asmnt 1-10, 11-25 (skip 12,18,22) STP
30	4/20	23	23/ 24 prep/ pg. 640 rep	Structure and Function of Seed Plants/leaves		Ch 23 Asmnt 1-10, 11-22, 23, 26, 32, STP
31	4/27	24	Pg. 648	Plant hormone control/ flower dissection	Ch 22, 23	Ch 24 Asmnt 1-10, 30, 31, 32, STP
32	5/4	25	Savannah Rapids	Leaf/tree Identification Exam Review		<b>Leaf Collection due</b> , Ch 25 Asmnt 1-10, 11-20, STP
	5/11	NO Class – Exam Due- (Chapters 22-40 (except 33 & 34))				

**Homework:** I assign homework that is due for the week, and give suggestions to divide it up in daily chunks. Everyone's schedules are different so these are just suggestions. However, you should work on your Biology every day! Some chapters are long and the material may be very new to you and more difficult. Homework will be the questions assigned at the end of each section and at the end of the chapter. The answers for the questions from the Teacher's Edition will be available after we discuss it in class. Doing your homework diligently will help with your test grades and to make sure you have a sound understanding of the material. Each week I will check for completion of Homework. You will receive one of the following grades 100 (all questions attempted), 75 (left out a few), 50 (Oops, forgot to do that section), or 0 (attempted less than half). Homework is due when you walk into class.

**Tests:** There are tests at the end of every chapter and we will be covering a least 1 chapter a week, Phew! These will be take home tests that you complete and bring back the next week for grading. I highly encourage you to take the test on the afternoon of the lab day that the material is covered. I also highly encourage you to take the test before you start the material for the next chapter.

**Labs:** Most labs will be completed in class. Some labs will need to be completed at home.

**Missing class:** I am flexible, I am a homeschool mom. Just let me know beforehand and we can work it out.

**Late Work:** Yuck! I don't like it. If you forget to bring it, you can email it to me with a 10 point penalty. You get one pass with no penalty per semester on late labs and tests. You get one free pass per semester for not having your homework, but I do not accept late homework.

### **GRADING**

Homework	20%
Labs/Quizzes	30%
Tests	40%
Exam	10%