

Biology for High School

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Introduction to this Guide

Welcome to Biology! This year, you will learn about biochemistry, cell structure, photosynthesis, genetics, plants, microorganisms, anatomy, and much more. In this guide, you will find three types of schedules, as well as notes with the assignments for each week. To get links to the textbook, teacher guide, experiment, and quick-links for the activities in this guide, please visit:

https://elementalscience.com/blogs/resources/bhs

Three Courses in One

This guide contains the plans for three courses in one book. These are:

- ** Honors The plans in this option are for a lab science, 1-credit *Honors Biology* course. There are textbook assignments, experiments, events in science, optional hands-on activities, and written work with these plans. Expect to take about 5 to 6 hours a week to complete these plans. We recommend this option for students who plan on going into the sciences. The honors course will also fulfill a lab science credit for graduation.
- Standard The plans in this option are for a standard lab science, 1-credit *High School Biology* course. There are textbook assignments, experiments, and written work with these plans. Expect to take about 4 to 5 hours a week to complete these plans. We recommend this option for students who are not and for students who are planning on going into the sciences. The standard course will fulfill a lab science credit for graduation.
- Survey The plans in this option are for an information-only, 1-credit *Survey of Biology* course. There are textbook assignments, written work, and events in science with these plans. There are no experiments or hands-on activities scheduled with these plans. Expect to take about 4 to 5 hours a week to complete these plans. We recommend this option for students who are not planning on going into the sciences and do not need a lab science credit for graduation.

Each of the scheduling pages will note at the top which course the plans are for. These schedules for these courses are suggestions; please check with your local oversight contact to make sure that you are meeting your state's graduation requirements. Please feel free to tailor this program to the needs of your students.

An Explanation of the Sections

After the scheduling pages, you will find the notes sheets. These sheets are divided into four sections - textbook, experiments, events in science, and hands-on activities. Here is an explanation of each of these sections.

Textbook

For this study, we have chosen to use a widely available, standard text book, CK-12 Biology.

You can download this text as a pdf from the resource page above. You will complete the reading assignment and then answer several of the questions from the text. These answers should be added to the reading section of the science notebooks. You will also define several of the key terms from the chapter. The definitions should be added to the glossary section of the science notebook.

Experiment

All the experiments come from *Illustrated Guide to Home Biology Experiments*, along with the corresponding experiment kit. You can download the guide for free and purchase the kit (BK01A Standard/Honors Home School Biology Laboratory Kit) from here:

https://www.thehomescientist.com/bk01-main.php

With each of these experiments, you will find a purpose, required pre-reading, procedure, lab notebook assignments, and lab questions. For each week, we have included a supply list for your convenience. If you would like to see a full list of the household supplies you will need in addition to the experiment kit, please see pg. 239 in the Appendix.

We have also incorporated an optional online lab into the standard course. These online labs are available through Beyond Labz. You can visit the resource page for this program for directions on how to sign up and use these labs or visit their website directly at:

□ https://www.beyondlabz.com/

As part of unit four, the standard- and honors-course students will complete a full lab report for one of the experiments. We have included an explanation of what a full lab report includes after this introduction.

Events in Science

This section gives two options for the Events in Science section. One will familiarize you with current events in science, as you research on the internet for the various topics. The other will familiarize you with the key historical figures in biology through the scientist biography report. We have included two articles to explain these options in more depth following this introduction.

Hands-on Activities

We have also included optional hands-on experiments for each week. You can see a list of the supplies you will need for these in the Appendix on pg. 242.

The Science Notebook

This year, you will each create a science notebook. Each notebook should contain the following sections:

Reading (All Students) - This section of the notebook will contain any notes you have
taken, along with the answers to the questions that were assigned each week.
Lab (Standard- and Honors-Course Students Only) - This section of the notebook will
house the notes from the experiments you have done, along with any other materials
relating to the labs.
Events (Survey- and Honors-Course Students Only) - This section of the notebook will
include either the current events article summaries or the historical reports you have done
Glossary (All Students) - This section of the notebook will have the definitions for the
assigned vocabulary words.

This notebook can be a composition book, divided into the required sections, or a three-ring binder with dividers for each section.

Grading and Credits

The three options in this guide meet the requirements for a full credit of high school biology, as explained above. Each week, the student will answer lab and textbook questions, do events in science written work, and define vocabulary that can count toward a classwork grade for the course. The textbook for this course has chapter tests available for free in the quizzes and tests packet. We suggest that you use these for the exam grade for the course. We suggest you use the following percentages to come up with a final grade for the course:

Class work: 70%

© Exam: 30%

Note - A grading rubric for the Scientist Biography Reports can be found on pg. 244 in the Appendix.

Students Going Into The Sciences

If your students plan to go on to major in the sciences, we suggest that you also add an indepth project and a research report at some point during the year to this program. An explanation of the in-depth project and of the research report can be found on the following pages.

Final Thoughts

As the authors and publishers of this curriculum, we encourage you to contact us with any questions or problems that you might have concerning *Biology for High School* at support@ elementalscience.com. We will be more than happy to answer you as soon as we are able. We trust that you and your students will enjoy *Biology for High School*!

Biology for High School

Unit 1 - Cell Structure, Function, and Reproduction

Week 1 Notes - Introduction to Biology

Textbook Assignments

oxibook / toriginiterine	
Reading	
CK-12 Biology Sections 1.1, 1.2	
Written	
After you finish reading, answer que	stions #1-6 in section 1.2 and file your work in the
reading section of your science notebool	k. Then, define the following terms in the glossary
section of your science notebook:	
🗀 Dependent variable	🗀 Stage
Independent variable	Turret
Scientific theory	🗀 Aperture
Scientific law	🗀 Rheostat

Experiment - Using a Microscope

Purpose

The purpose of this lab is to familiarize you with how biology labs work and to get you comfortable with using the *Illustrated Guide to Home Biology Experiments*.

Pre-Reading

Read the background and procedure sections for the "Using the Microscope" lab on pg. 53 in the *Illustrated Guide to Home Biology Experiments*.

Procedure

✓ Do the lab entitled "Using the Microscope" lab on pg. 53 in the *Illustrated Guide to Home Biology Experiments*.

Lab Notebook

Write down on a sheet of paper or type out your notes as you do the experiment. After you are done, print out your lab notes and add them to the lab section of your science notebook. (See pp. 4-6 in the Illustrated Guide to Home Biology Experiments for information about a lab notebook.)

Lab Review Questions

• Complete the review questions of the "Using the Microscope" lab on pg. 61 in the *Illustrated Guide to Home Biology Experiments*. Record the answers in the lab section of your science notebook.

Online Lab

There is no online lab scheduled for this week.

Events in Science

Current Events

⁽¹⁾ Find a current events article relating to the field of biochemistry and complete the article summary sheet found on pg. 246 of the Appendix. Once you are done, add the sheet to the events section of your science notebook.

Historical Figures

⁽¹⁾ Begin to research the life and work of Aristotle, who is considered by many to be the father of biology. You will have three weeks to complete your research. After that, you will have two weeks to prepare a two to three page paper on this scientist and his contributions to the field of biology.

Hands-on Activity

Optional Hands-on

> Practice using a microscope by making wet mount and dry mount slides. Directions can be found here: https://elementalscience.com/blogs/science-activities/how-to-make-a-microscope-slide.

Week 1 Supply List

Weekly Experiment			
Supplies from BK01A Biology Kit	☐ Goggles, Forceps, Ruler (millimeter scale)		
Additional Supplies From Home	Gloves, Lamp or book light, Microscope, Scissors, Slide - prepared (bacteria or diatoms), Notebook or copy paper		
Hands-on Activity			
Supplies Needed	☐ Microscope, Blank slides, Various materials to examine		

Week 1	Week 1 Unit 1 (Honors Course) 5-Day				
Weekly Topic					
→ This week	will be an introdu	ction to biology.			
	Day 1	Day 2	Day 3	Day 4	Day 5
Textbook and Experiment	☐ Read <i>CK-</i> 12 Biology Section 1.1.	☐ Read <i>CK-</i> 12 Biology Section 1.2.	Read the background and procedure sections for the week's lab.	Do the "Using a Microscope" lab on pg. 53 in Illustrated Guide to Home Biology Experiments.	Do the optional Hands-on Assignment - Wet and Dry Mount Slides.
Writing	Add the vocabulary to the glossary section of your science notebook.	Answer the assigned questions in the reading section of your science notebook.		Record what you have done in the lab section of your science notebook.	Complete the lab review questions for the week.
Events in Science	☐ Choose one of the Events in Science assignments to do and add your work to the events section of your science notebook.				
Other Notes					

Week 1	U	4-Day				
Weekly Topic						
→ This week will be an introduction to biology.						
	Day 1	Day 2	Day 3	Day 4		
Textbook and Experiment	☐ Read CK-12 Biology Section 1.1.	☐ Read <i>CK</i> - 12 Biology Section 1.2.	☐ Read the background and procedure sections for the week's lab.	☐ Do the "Using a Microscope" lab on pg. 53 in Illustrated Guide to Home Biology Experiments.		
Writing	Add the vocabulary to the glossary section of your science notebook.	Answer the assigned questions in the reading section of your science notebook.		Record what you have done in the lab section of your science notebook.		
		Other No	otes			

Week 1 Unit 1 (Survey Course) 2-Day					
Weekly Topic					
→ This week will be an introduction to biology.					
	Day 1	Day 2			
Textbook	☐ Read <i>CK-12 Biology</i> Section 1.1.	☐ Read <i>CK-12 Biology</i> Section 1.2.			
Writing	Add the vocabulary to the glossary section of your science notebook.	☐ Answer the assigned questions in the reading section of your science notebook.			
Events in Science Choose one of the Events in Science assignments to do and add your work to the events section of your science notebook.					
	Other Notes				

Week 2 Notes - Chemistry of Life, part 1

Textbook Assignments Reading □ CK-12 Biology Sections 2.1, 2.2 Written After you finish reading, answer questions #1-7 in section 2.1 and file your work in the reading section of your science notebook. Then, define the following terms in the glossary section of your science notebook: □ Amino Acid □ Carbohydrate □ Carbohydrate □ Complementary Base Pair □ RNA □ DNA □ Anabolic Reaction

Experiment - Mounting Specimens

Purpose

The purpose of this lab is to familiarize you with how to mount specimens.

Pre-Reading

Lipid

Read the background and procedure sections for the "Mounting Specimens" lab on pg. 63 in the *Illustrated Guide to Home Biology Experiments*.

Catabolic Reaction

Procedure

✓ Do the lab entitled "Mounting Specimens" on pg. 63 in the *Illustrated Guide to Home Biology Experiments*.

Lab Notebook

Write down on a sheet of paper or type out your notes as you do the experiment. After you are done, print out your lab notes and add them to the lab section of your science notebook.

Lab Review Questions

• Complete the review questions of the "Mounting Specimens" lab on pg. 69 in the *Illustrated Guide to Home Biology Experiments*. Record the answers in the lab section of your science notebook.

Online Lab - Introduction to the Microscopy Lab

Purpose

The purpose of this online lab is to learn about the strengths and capabilities of the four different microscopes available on the microscopy lab bench.

Pre-Reading

& Print and read the section of the workbook for the "Introduction to the Microscopy Lab"

online lab.

Procedure

✓ Do the lab entitled "Introduction to the Microscopy Lab" and answer the questions as you work through the online lab.

Lab Notebook

Add the completed workbook pages that were printed to the lab notebook.

Events in Science

Current Events

⁽¹⁾ Find a current events article relating to the field of biochemistry and complete the article summary sheet found on pg. 246 of the Appendix. Once you are done, add the sheet to the events section of your science notebook.

Historical Figures

© Continue to research the life and work of Aristotle.

Hands-on Activity

Optional Hands-on

Learn about how complimentary base pairs work by creating a DNA ladder out of LEGOS. Directions can be found here: http://elementalblogging.com/homeschool-science-corner-dna/.

Week 2 Supply List

Weekly Experiment			
Supplies from BK01A Biology Kit	☐ Goggles, Coverslips, Forceps, Glycerol, Pipettes, Scalpel, Slide (well), Slides (flat), Stain, methylene blue, Stirring rod (optional)		
Additional Supplies From Home	Gloves, Butane lighter (or other flame source), Carrot (raw), Microscope, Microtome (purchased or homemade), Petroleum jelly, Human hair, Pond water, Toothpicks, Vegetable oil (olive or similar), Water, distilled		
Hands-on Activity			
Supplies Needed	□ LEGO bricks		

Week 2 Unit 1 (Honors Course) 5-Day					
Weekly Topic					
→ This week	will begin a look a	at the chemistry of	life.		
	Day 1	Day 2	Day 3	Day 4	Day 5
Textbook and Experiment	☐ Read <i>CK-</i> 12 Biology Section 2.1.	☐ Read <i>CK-</i> 12 Biology Section 2.2.	Read the background and procedure sections for the week's lab.	Do the "Mounting Specimens" lab on pg. 63 in Illustrated Guide to Home Biology Experiments.	Do the optional Hands-on Assignment - DNA Ladder.
Writing	Add the vocabulary to the glossary section of your science notebook.	Answer the assigned questions in the reading section of your science notebook.	☐ Take the Chapter 1 Test from CK-12 Biology.	Record what you have done in the lab section of your science notebook.	Complete the lab review questions for the week.
Events in Science	☐ Choose one of the Events in Science assignments to do and add your work to the events section of your science notebook.				
	Other Notes				

Week 2	Unit 1 (Standard Course) 4-Day			
Weekly Topic				
→ This week w	vill begin a look at the	chemistry of life.	·	
	Day 1	Day 2	Day 3	Day 4
Textbook and Experiment	Read CK-12 Biology Section 2.1.	☐ Read <i>CK</i> - 12 Biology Section 2.2.	☐ Read the background and procedure sections for the week's lab.	□ Do the "Mounting Specimens" lab on pg. 63 in <i>Illustrated Guide to Home Biology Experiments</i> . □ Do the online lab "Introduction to the Microscopy Lab."
Writing	Add the vocabulary to the glossary section of your science notebook.	Answer the assigned questions in the reading section of your science notebook.	☐ Take the Chapter 1 Test from <i>CK</i> -12 Biology.	Record what you have done in the lab section of your science notebook.
		Other N	otes	

Week 2	Unit 1 (Survey Course) 2-Day		
Weekly Topic			
→ This week will begin a look at the chemistry of life.			
	Day 1	Day 2	
Textbook	☐ Read <i>CK-12 Biology</i> Section 2.1.	☐ Read <i>CK-12 Biology</i> Section 2.2.	
Writing	 □ Add the vocabulary to the glossary section of your science notebook. □ Take the Chapter 1 Test from CK-12 Biology. 	☐ Answer the assigned questions in the reading section of your science notebook.	
Events in Science Choose one of the Events in Science assignments to do and add your work to the events section of your science notebook.			
Other Notes			

Week 3 Notes - Chemistry of Life, part 2

Textbook Assignments

•
Reading
CK-12 Biology Section 2.3
Written

After you finish reading, answer questions #1-6 in section 2.3 and file your work in the reading section of your science notebook. Then, define the following terms in the glossary section of your science notebook:

TAcid	□ pH
⊞ Base	🗀 Polarity

Experiment - Staining

Purpose

The purpose of this lab is to practice and learn various techniques for staining microscope slides.

Pre-Reading

Guide to Home Biology Experiments.

Procedure

✓ Do the lab entitled "Staining" on pg. 71 in *Illustrated Guide to Home Biology Experiments*.

Lab Notebook

Write down on a sheet of paper or type out your notes as you do the experiment. After you are done, print out your lab notes and add them to the lab section of your science notebook.

Lab Review Questions

• Complete the review questions of the "Staining" lab on pg. 76 in *Illustrated Guide to Home Biology Experiments*. Record the answers in the lab section of your science notebook.

Online Lab - Staining Bacteria

Purpose

The purpose of this online lab is to learn how microbiologists use stain microscope slides to tell different types of bacteria apart.

Pre-Reading

Ar Print and read the section of the workbook for the "Staining Bacteria" online lab.

Procedure

✓ Do the lab entitled "Staining Bacteria" and answer the questions as you work through the online lab.

Lab Notebook

Add the completed workbook pages that were printed to the lab notebook.

Events in Science

Current Events

Find a current events article relating to the field of biochemistry and complete the article summary sheet found on pg. 246 of the Appendix. Once you are done, add the sheet to the events section of your science notebook.

Historical Figures

① Continue to research the life and work of Aristotle.

Hands-on Activity

Optional Hands-on

X Test common household materials to see if they are acids or bases. Directions can be found here: https://elementalscience.com/blogs/science-activities/kitchen-acid-test.

Week 3 Supply List

Weekly Experiment			
Supplies from BK01A Biology Kit	Goggles, Coverslips, Pipettes, Slides (flat), Stain - eosin Y, Stain - Gram's iodine, Stain - Hucker's crystal violet, Stain - methylene blue, Stain - safranin O, Stirring rod (optional)		
Additional Supplies From Home	Gloves, Butane lighter (or other flame source), Ethanol 70%, Microscope, Paper towels, Toothpicks, Water, distilled		
Hands-on Activity			
Supplies Needed	Red cabbage juice or pH paper, Common household chemicals such as bleach, ammonia, and vinegar		

Week 3	Veek 3 Unit 1 (Honors Course) 5-Day			5-Day	
		Wee	ekly Topic		
→ This week	will wrap up a loo	k at the chemistry	of life.		
	Day 1	Day 2	Day 3	Day 4	Day 5
Textbook and Experiment	☐ Read <i>CK</i> - 12 Biology Section 2.3.		Read the background and procedure sections for the week's lab.	Do the "Staining" lab on pg. 71 in Illustrated Guide to Home Biology Experiments.	☐ Do the optional Hands-on Assignment - Kitchen Acids and Bases.
Writing	Add the vocabulary to the glossary section of your science notebook.	Answer the assigned questions in the reading section of your science notebook.	☐ Take the Chapter 2 Test from CK-12 Biology.	Record what you have done in the lab section of your science notebook.	Complete the lab review questions for the week.
Events in Science Choose one of the Events in Science assignments to do and add your work to the events section of your science notebook.					
		Oth	ier Notes		

Week 3	Unit 1 (Standard Course) 4-Day			
Weekly Topic				
→ This week w	vill wrap up a look at 1	the chemistry of life.		
	Day 1	Day 2	Day 3	Day 4
Textbook and Experiment	Read CK-12 Biology Section 2.3.		☐ Read the background and procedure sections for the week's lab.	□ Do the "Staining" lab on pg. 71 in Illustrated Guide to Home Biology Experiments. OR □ Do the online lab "Staining Bacteria."
Writing	Add the vocabulary to the glossary section of your science notebook.	Answer the assigned questions in the reading section of your science notebook.	☐ Take the Chapter 2 Test from <i>CK</i> -12 Biology.	Record what you have done in the lab section of your science notebook.
		Other N	otes	

Unit 1 (Survey Course) 2-Day			
Week 3 Unit 1 (Survey Course) 2-Day Weekly Topic			
will wrap up a look at the chemistry of life.			
Day 1	Day 2		
☐ Read <i>CK-12 Biology</i> Section 2.3.	☐ Take the Chapter 2 Test from <i>CK-12 Biology</i> .		
Add the vocabulary to the glossary section of your science notebook.	☐ Answer the assigned questions in the reading section of your science notebook.		
Choose one of the Events in Science assignments to do and add your work to the events section of your science notebook.			
Other Notes			
	Weekly Topic will wrap up a look at the chemistry of life. Day 1 Read CK-12 Biology Section 2.3. Add the vocabulary to the glossary section of your science notebook. Choose one of the Events in Science assign		