



# PIONEERS Co-Op

637 W. Ganson Street, Box B, Jackson, MI 49201  
Voicemail: (517) 888-4328 Email: OfficeAdmin@pioneershess.org  
Website://pioneershess.org

## Overview of **BIOLOGY** (Grades 9-12)

### Grading Scale

90-100%	=A
80-89%	=B
70-79%	=C
60-69%	=D
Less than 60%	=E

**Tutor:** Mrs. Nicole Southworth, BSN, RN-BC  
517-212-5752  
[nicolesouthworth@hotmail.com](mailto:nicolesouthworth@hotmail.com)

**Textbook:** *Exploring Creation with Biology* by Dr. J. Wile Ph.D. (Apologia) — 2nd Edition

**Required Supplements:** *Solutions Manual*

**Lab Fee:** \$10.00 per semester

### Schedule of Topics Covered:

- *Biology, the Study of Life*
- *Kingdom Monera*
- *Kingdom Protista*
- *Kingdom Fungi*
- *The Chemistry of Life*
- *The Cell*
- *Cellular Respiration and DNA*
- *Mendelian Genetics*
- *Evolution vs. Creation*
- *Ecology*
- *Lower Invertebrates*
- *Phylum Arthropoda*
- *Phylum Chordata*
- *Kingdom Plantae — Anatomy/Taxonomy*
- *Kingdom Plantae — Physiology/Reproduction*
- *Reptiles, Birds and Mammals*

**Student Evaluation:** Students will receive a percentage grade each semester based upon the following:

<b>1<sup>st</sup> Semester</b>	% of semester grade	<b>2<sup>nd</sup> Semester</b>	% of semester grade
Homework/Quizzes	20%	Homework/Quizzes	20%
Lab Reports	15%	Lab Reports	15%
Module Test Scores	20%	Module Test Scores	20%
Cell Project	15%	Second Semester Project	15%
Semester Exam	30%	Final Exam	30%

### Class Expectations:

- **Attendance** — be on time!
- **Preparedness** — Come to class with all your supplies (see list) and make sure you read the assignment **before** class. Have completed work ready to turn in to me.
- **Participate actively** in class discussions and labs. Be **dedicated** to your studies!



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## Homework:

1. One common assignment is the “On your own” or OYO problems. You’ll find OYO’s throughout your assigned reading and some will be discussed in class. Always complete them while doing the assigned readings. The answers are found in the text just ahead of the study guide questions; students should check their own answers for OYO’s. You will be required to turn them in as part of your homework.
2. Another common assignment is the **end-of-the module Study Guides**. Students should complete the **Study Guides** and a parent should check the answers (correct) using the solutions manual. Parents should have the student review and make corrections if necessary. This will help students better prepare for tests/exams.
3. **Lab reports** are required as a written record of the labs we do in class.
4. Homework and reading will be assigned five days a week, even on the “off days” when we do not meet. Please be diligent with this; we have a lot of material to cover! Plan to spend **45–60 minutes per day** on Biology.
5. Students will receive 1–2 quizzes on each module in class. Any notes taken when reading the text, and answers to any questions may be used for quizzes. These are designed to keep you accountable for your homework and prepare you for tests.

## Semester Projects:

- Construct an analogy/model of a plant or animal cell for Module 6.
- Students will select a project from a list of various projects or, with tutor approval, design a project of their own.

## Quizzes and Tests:

1. Module tests will be taken at home under a parent’s supervision, with parent’s signature, and quarter exams will be completed in class.
2. Quarter tests are prepared by the tutor.
3. Each of the first three quarter exams covers material covered in those quarters, whereas the fourth quarter exam covers 75% of fourth quarter material and 25% cumulative material.

## Supplies — Bring to each class session:

1. Textbook
2. Any experiments
3. Pen (blue/black), pencils and eraser
4. 3-ring notebook —1 ½ inch. This will need to have 17 labeled sections:
  - Each Module 1-16 will be a section.
  - Section for projects and exam reviews
5. A 2-pocket school grade folder with metal prongs color coded for which hour of class you’re in.
  - 1st Hour – Red
  - 2<sup>nd</sup> Hour – Blue
  - 3<sup>rd</sup> Hour – Yellow
  - 4<sup>th</sup> Hour – Green
  - 5<sup>th</sup> Hour – Orange