

# Course Description

## Physics

### H.O.M.E. Group 2018-19

Instructor: Janell Farmer  
Email: [tjvacfarmers@yahoo.com](mailto:tjvacfarmers@yahoo.com)  
Phone: 586-864-7104

Start Date: September 7, 2018  
End Date: May 17, 2019  
Class Times: Fridays 12:30 – 2:00

#### Cash Cost:

- Supply fee is \$70.00 for the year.
  - \$160 per semester
  - Payment Schedule:
    - Parent -Teacher Meeting (August 21<sup>st</sup>) - Total Supply fee of \$70.00
    - November 16<sup>th</sup> ¼ of the Tuition - \$160.00(unless there is a multi-child discount applied)
    - March 16<sup>th</sup> ¼ of the Tuition - \$160.00
  - If you have multiple children taking science classes from me, I do give a tuition break of 25%.
- Please contact me to get further details.

#### SOARCE Cost:

- Supply Fee is \$70 for the year and is the responsibility of the parent and is due on August 21st
- \$250 per semester

## Instructor Biography

I have been teaching science to high school students for over twenty years. I obtained a Bachelor of Science degree with a double major in Science and Math education from Pensacola Christian College. Later I went on to earn my Master's Degree in School Administration. I have served as a Chemistry Department head at a private academy in Florida and taught at various Christian schools until my husband and I started having children. In the late 90's, I began offering science classes to homeschooling parents that didn't have the equipment or desire to do lab work in their own homes. Since then I have built up my own science lab and greatly enjoy working with the local homeschooling community. My family and I are active members of Cornerstone Baptist Church of Roseville. I am so thankful for the ministry at Faith Lutheran that provides this opportunity to partner with parents in better equipping their students in both a science education and a love for our Creator.

## Course Description

The physics class is designed to have the student better understand the basic laws that govern the universe and how they work.

It requires the completion of algebra II as a prerequisite and being familiar with basic trigonometric functions.

## Skills & Topics

This course relies heavily on the student being familiar with manipulating equations and working with trigonometric functions. The following topics are covered: multi-dimensional movement, Newton's Laws, circular motion, work & energy, periodic motion, waves, optics, electricity, and magnetism.

## Textbook and Supplies Needed

1. Textbook: *Exploring Creation with Physics* 2<sup>nd</sup> edition. Published by Apologia Educational Ministries (Please do NOT get the 3<sup>rd</sup> edition text)
2. The *Exploring Creation with Physics Solutions and Test Manual* 2<sup>nd</sup> edition is also required
3. Binder with notebook paper, 4x6 cards, pen, pencil, and highlighters
4. Scientific Calculator
5. Use of a library and/or internet for research
6. Use of a computer and printer for papers

## Classroom Policies

- I ask that students respect the learning environment by not using cell phones while in class.
- Please be punctual and attentive for the class period.
- Textbook work, lab assignments, and tests are due on the due date and are not accepted later unless you have an excused absence. In that case it is accepted the following class period only. Incomplete work is accepted for partial credit.
- Quizzes and tests will be given regularly.
- There will be extra research projects that the student's will be expected to do as well and will need to be turned in on their due dates.
- While doing our laboratory work, I expect the student to act wisely with all science equipment. If something is broken, the student will be expected to pay for a replacement.
- The students will be working together in groups of two. I will be assigning lab partners.
- Before a student leaves class each day, it is expected that their lab supplies will be put away and their work area cleaned off.
- If the student misses a class, it is their responsibility to contact me about what they missed and to have their work ready for the next time they are in class.

## Evaluation and Grading

- The homework assigned for each class period will be checked in class and given a grade.
- Each lab will have report sheets that will need to be filled out in class and turned in to get graded.
- The student should be prepared to take a quiz at the beginning of each class over the reading assignment.
- When we are in the dissecting section of our course, there will also be lab quizzes where the students will be expected to identify different parts of the specimen.
- Tests will be passed out at the end of each chapter. The student will receive the test in a manila envelope. There will be instructions on the front of the envelope for the parent to follow. **IT IS VITAL THAT WHEN THE STUDENT TAKES THE TEST HE DOES IT WITH HIS BOOK CLOSED AND NOTES PUT AWAY.** The manila envelope will need to be brought back to the next class so than the tests can be graded.
- Class evaluation will be based on four areas weighted accordingly:

Homework -	10%
Quizzes-	25%
Lab Sheets -	25%
Tests -	40%
- Progress reports will be passed out in December and May.

- This course is designed to count as one high school science class with a lab credit.

<b>Percent</b>	<b>Letter Grade</b>
100-93%	A
92-90%	A-
89-87%	B+
86-83%	B
82-80%	B-
79-77%	C+
76-73%	C
72-70%	C-
69-67%	D+
66-63%	D
62-60%	D-
59-0%	F