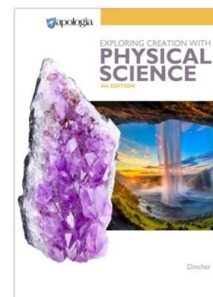




# PIONEERS Co-Op

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

## Overview of PHYSICAL SCIENCE (Grades 8-10)



**Tutor:** Mrs. Anna French  
903-387-6548  
[annafrnch@gmail.com](mailto:annafrnch@gmail.com)

### Textbook:

- **Exploring Creation with Physical Science 4th Ed.** by Vicki Dincher Published by Apologia
- (ISBN-13: 9781940110141)
- **Solutions Manual and Tests** (ISBN -13 9781940110400) (Please keep in parent's possession!)

### Additional Resources:

- Scientific calculator with exponent function like the TI-30xa
- Tutor will provide Student Workbook pages throughout the course of class.

**Technology:** Microsoft Teams

**Prerequisite:** Algebra ½ (Pre-Algebra) or currently taking

**Lab Fee:** \$10 per semester

### Concepts Covered

- Scientific Method
- Measurement and measurement conversions
- Chemistry - Properties and States of Matter
- Chemistry- Atomic Theory, Structure, Periodic Table
- Chemistry - Chemical Bonds
- Chemistry- Chemical Reactions
- Physics - Motion
- Physics - Forces
- Physics - Energy
- Physics- Waves and Sound
- Physics- Light
- Physics - Electricity and Magnetism
- Earth Science - Our Earth
- Earth Science- Our Atmosphere
- Chemistry and Physics in Life Science
- Scientific Research

#### Grading Scale

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

### First Semester % of semester grade

Homework	20%
Labs	20%
Tests/Quizzes	30%
Exams	20%
Class Participation/ Organization	10%

### Second Semester % of semester grade

Homework	20%
Labs	20%
Tests/Quizzes	30%
Exams	20%
Year End Project	10%



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## Class Participation is Based Upon:

1. **Attendance** — be on time!
2. **Preparedness** — Come to class with all your supplies (see list) and make sure you read the assignment
3. **Active participation** in class discussions and labs

## Homework: (should require about 3/4 to 1 hour of work per day)

1. One common assignment is the **On your own** problems. These are throughout your assigned reading and should be answered as you go along. Grade them at home for immediate feedback. DO NOT look at the answers until you try them on your own! I will collect these for accountability and to check for understanding.
2. Another common assignment is the **end-of-the module study guides**. I will grade these, but parents need to check them and have students correct them.
3. **Lab Data Sheets** a written record of the labs we do in class, these will need to be finished at home. **Formal Lab Report**: 1 per chapter, a checklist and template is given.
4. Homework and reading will be assigned four days a week, even on the week of the month when we do not meet. Please be diligent with this, we have a lot of material to cover!

## Quizzes and Tests:

1. Quizzes may be given at the beginning of a class period. They will cover vocabulary and the current area of study and reading.
2. Most module tests will be taken at home under a parent's supervision.
3. The quarterly exam is a teacher prepared test given **in class** over material from the previous quarter.

## Supplies — Bring to each Class Session:

1. Pencil and/or pen
2. Lined paper for notes and quizzes
3. 3-ring notebook (not bigger than 1 1/2 inches) with five dividers
4. Ruler (both standard U.S. and metric)
5. Calculator