



# Hephatha Lutheran School

## Course Syllabus 2018 - 2019

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### Physical Science

Mr. Duerr

Email Address: [pduerr@hephatha.net](mailto:pduerr@hephatha.net)

Location: 8<sup>th</sup> Grade Classroom

### Course Description:

Physical science, which is the study of matter and energy, is a combination of two branches of science – Chemistry and Physics. Chemistry is the study of matter and the changes it goes through. Physics is the study of the relationship between matter and energy.

### Course Objectives:

1. Use the tools of observation and the scientific method to explore the physical world.
2. Investigate the effect motion and forces have on different phases of matter, and on each other.
3. Explore the relationship between work, machines, energy and heat.
4. Classify elements using the properties of the periodic table of elements and the characteristics of their respective atoms.
5. Investigate how chemicals react and combine with each other.
6. Explore the basic principals of electricity.
7. Discover the nature of waves, sound and light.

### Textbook(s):

Holt Science and Technology: Physical Science

### Required Course Materials:

Spiral bound Notebook *for notes* (you will need more than one)

TechTool (See Tech Handbook for appropriate tool)

Blue or Black Pen

College Ruled paper

Scientific Calculator

### **Teacher/Academic Expectations:**

1. Students are to be prepared for class, with all necessary materials at their desk.
2. Students will be respectful of all individuals in the classroom at all times.
3. Students will participate in class with thoughtful questions, answers, or comments in an appropriate manner raising his/her hand and waiting to be called on.
4. Students will have all due assignments completed prior to the beginning of the school day, unless other arrangements have been made with the teacher.
  - Please reference Middle School Handbook for homework policy.
  - Late homework.
    - i. Turning in the day assigned but not at the beginning of the day will result in a 25% reduction of the grade.
    - ii. Turned in anytime after the day it was assigned but before the end of the trimester will result in a 50% reduction of the grade.
5. Students will glorify God by using the talents he has given them by always doing their best on their assignments, always submitting them in a neat and organized manner. (If you wouldn't hand your assignment to our Lord Jesus Christ, then you are not glorifying him with your efforts) – 1 Corinthians 10:31

### **Grade Scale:**

A	90 – 100%
B	80 – 89%
C	70 – 79%
D	60 – 69%
F	0 – 59%

\*Note: Mathematically appropriate rounding will be taken into account. (ex. 89.4% => 89%, 89.5% => 90%)

### **Grading Procedures:**

1. Final grades will be determined by 4 weighted categories.
  - Tests – 50%
  - Homework – 35%
  - Quizzes – 10%
  - Participation – 5%
2. All homework will be entered using points. In general each question is worth 3 points.

- 3 points = full correct. 2 point = contain mostly correct information but some information is either missing or incorrect. 1 point = Incorrect information but good thoughts.
  - On critical thinking questions the right idea will also earn 2 points. 1 point = incorrect conclusion/no correct information but effort was shown. 0 points = the answer showed little to no thought and/or contains no correct information.
3. Tests/Quizzes will be entered using points. Each test point holds equal weight and each quiz point holds equal weight.
  4. Participation will be entered once at the end of each trimester. The participation grade will be determined by homework completion, in class participation, behavior and effort.