

## **Physical Science Syllabus: 2016-2017**

Jason Schultz N131 ([jason.schultz@mpls.k12.mn.us](mailto:jason.schultz@mpls.k12.mn.us))

Class website: [http://southwest.mpls.k12.mn.us/schultz\\_jason](http://southwest.mpls.k12.mn.us/schultz_jason)

### **Physical Science Description/Purpose**

Physical Science is a yearlong course, which includes an introduction to fundamental concepts of physics, chemistry, astronomy, and earth science. Practical applications and technology will be used to illustrate concepts in laboratory-based situations. This course will also enhance personal scientific literacy needed in our global community. Units of study include:

- Introduction to Physical Science
- Motion and Forces
- Energy
- Astronomy
- Atomic Structure and Behavior
- Chemical Reactions
- Earth Systems

### **Course Goals and Learning Objectives**

- Students will gather, interpret, and analyze data.
- Students will design and perform good scientific experiments.
- Students will work with a variety of technologies.
- Students will exhibit social and ethical responsibility.
- Students will demonstrate the ability to learn independently and cooperatively.
- Students will gain an awareness of their role in the global community.

### **Prerequisites**

There are no prerequisites. This is an introductory course that prepares students for the upper level courses in Chemistry, Physics, and Earth Systems in 10-12<sup>th</sup> grade.

### **Required Textbooks and Equipment**

- Textbook: "CPO Physical, Earth and Space Science"
  - Accessible online <http://curiosityplace.schoolspecialty.com/home?lpanel=1>
- Notebook
- Folder
- Pencil or Pen (blue or black)

### **Classroom Procedures and Policies**

- Be respectful to people and property
  - Follow directions given the first time
  - Actively listen to the person who is speaking
  - Keep your hands to yourself
  - No offensive language
  - No food, candy or drinks in class. Water is permitted.
- Be prepared and ready to learn
  - Bring all materials to class every day
  - Work on your assignments to the best of your ability and have questions if/when you are stuck
  - Take an active part in class activities. Learn something!
  - Participate! Help solve problems on the board, ask questions, check answers.
  - Check the webpage for help, calendar, and other useful information
  - DO NOT BRING HATS AND JACKETS TO CLASS

- Organize yourself
  - Keep all your science assignments, notes, and handouts in your science notebook or binder
  - Use some sort of planner to keep track of important dates...school provided planner, your phone, something else?
  - Make sure your name and hour are always included on things that are handed in.
- Electronics are only allowed when given permission from your teacher and used for school purposes only. All other times, electronics should remain silent and out of sight.

## **Grading**

The MYP Criteria rubrics and grading scale will be used to determine your grade.

## **Grade Categories:**

75% formative (homework, lab worksheets, do-now's)

25% Summative (exams, quizzes, projects, etc.)

Each summative assignment will fit into one of the four IB MYP grading Criterion below and will be entered into the gradebook with letters A, B, C, or D in front of the assignments title.

Example                      A: Newton's Law Quiz

## **IB MYP Criterion:**

- **Criterion A: Knowledge & Understanding**
  - Explain scientific knowledge
  - Apply scientific knowledge and understanding to solve problems
  - Analyze and evaluate information to make scientifically supported judgments
- **Criterion B: Inquiring and Designing**
  - Explain a scientific problem or question to be tested by a scientific investigation
  - Formulate a testable hypothesis and explain it using scientific reasoning
  - Explain how to manipulate variables and explain how data will be collected
  - Design scientific investigations
- **Criterion C: Processing and evaluating**
  - Present collected and transformed data
  - Interpret data and explain results using scientific reasoning
  - Evaluate the validity of a hypothesis based on the outcome of a scientific investigation
  - Evaluate the validity of the method
  - Explain improvements or extensions to the method
- **Criterion D: Reflecting on the Impacts of Science**
  - Explain the ways in which science is applied and used to address a specific problem or issue
  - Discuss and evaluate the various implications of using science and its application to solve a specific problem or issue
  - Apply scientific language effectively
  - Document the work of others and sources of information used

## **Grade scale for MYP Rubric**

<b>Letter Grade</b>	<b>MYP Score</b>	<b>Description</b>
F	0-1	Incomplete, Developing, Limited "Still more work to do"
D	2	
C	3-4	Basic, Partly proficient, Inconsistent "Getting there"
B	5-6	Proficient, Consistent, Meets expectations "What was expected"
A	7-8	Excellent, Extended, Advanced, "More complex"

**\* +/- grades (ex: D- or B+) will be calculated by the MPS online gradebook system and are visible when you login to parent or student portal.**

**Exams, Quizzes and Retakes:**

I will not be giving exams at the end of each unit. Instead students will have a quiz every Friday the learning targets taught during the week. At the end of each quarter there is a final exam where students are given an opportunity to retake any/or all learning targets covered during the quarter.

- If a student earned a 0, 1, or 2 on any of the learning target quizzes they MUST retake that section of the final.
- If a student earned a 3 or above on any of the learning target quizzes they will have the option to retake those sections of the final exam.
- The final exam can't hurt your grade only improve it.

**Online Resources:**

See my webpage located under the teacher page tab located on the right side of the Southwest High School homepage.

**Cheating:**

Cheating includes copying another student, copying from a source without citing it, using notes on a test when not authorized, and helping another student on individual work. Cheating will result in redoing the assessment, possibly in a different form for all parties involved.

Parent/Guardian please read the above syllabi and print and sign your name in the space provided and return it to class.

**CUT HERE-----**

**Mr. Schultz 9<sup>th</sup> Grade Physical Science Syllabus**

**Student Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Parent Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Parent Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_