

Physical Science Class Syllabus

2007-2008

Mr. Hollingworth

Room #308

Email: fhollingworth@acslp.org

Website: <http://www.hollingworthadventures.com/SchoolPages/MrHClass.html>

Text:

Wysession, M., Frank, D., Yancopoulos, S. (2006). *Physical Science: Concepts in Action*. Pearson Prentice Hall: Needham, MA.

Course Description:

This course will provide students with a basic knowledge of physical science. It is designed to provide an excellent background for students who are interested in studying science in college. This class will include lecture, labs, tests and quizzes, homework, and class projects.

Rules and Expectations:

<p>Materials Needed: Each student should bring the following items to class every day:</p> <ul style="list-style-type: none"> • "Physical Science" Textbook • 3-Ring Binder • Notebook and Planner • Black Pen • Red Pen • Pencil 	<p>Student Responsibilities</p> <ol style="list-style-type: none"> 1. Be present and on time for class. 2. Be considerate of others. 3. Complete assigned work on time. 4. Do not bring food or drinks to class, except water. 5. Follow school guidelines. 6. Be responsible for your own success in class. 	<p>Teacher Responsibilities Mr. Hollingworth will:</p> <ol style="list-style-type: none"> 1. Treat every student fairly. 2. Treat every student with respect. 3. Work diligently to help students learn. 4. Follow school guidelines. 5. Have high expectations for every student. 6. Assist students in growing as people and in their understanding of the subject matter. 										
<p>Grading Scale 90-100% A 80-90% B 70-80% C 60-70% D Below 60% F</p>	<p>Grades Will Be Weighted As Follows:</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 60%;">Tests/ Quizzes/ Assessments</td> <td style="text-align: right;">60%</td> </tr> <tr> <td>Homework / Projects/Lab</td> <td style="text-align: right;">30%</td> </tr> <tr> <td>Non-Academic</td> <td style="text-align: right;">10%</td> </tr> <tr> <td colspan="2" style="text-align: center;">-----</td> </tr> <tr> <td colspan="2" style="text-align: center;">Total 100%</td> </tr> </tbody> </table> <p><u>Sem 1:</u> Q1 (40%)+ Q2 (40%)+ Final Exam (20%)= Semester Grade</p> <p><u>Sem 2:</u> Q3 (40%)+ Q4 (40%)+ Final Exam (20%)= Semester Grade</p>	Tests/ Quizzes/ Assessments	60%	Homework / Projects/Lab	30%	Non-Academic	10%	-----		Total 100%		<p>Non-Academic Grade: Students will be assessed in two areas and assigned a non-academic grade which will count for 10% of their quarter grade (as shown in the box to the left):</p> <p>Personal Timeliness- are they on-time regularly with materials?</p> <p>Behavior- do they regularly exhibit behavior that contributes to their success and to the success of other students in class?</p>
Tests/ Quizzes/ Assessments	60%											
Homework / Projects/Lab	30%											
Non-Academic	10%											

Total 100%												

<p>Homework Policy: Homework is due the date and time it is due. If not turned in on time, the student will have up to one week to complete the homework for HALF CREDIT. After one week, the student may turn in the homework assignment, but it will NOT count for credit. Homework from a student that had an excused absence must be turned in within the amount of time that they were absent from school to receive full credit. Homework without a name on it, or that is illegible, will NOT be graded and will thus receive a score of ZERO.</p>	<p>Test Policy: Tests and assessments must be completed in class the day they are given. If you are absent during test day, you must make it up within the amount of time that you were absent from school. You must also have an excused absence. If you do not make the test up within the required time with an excused absence, you will receive a ZERO for the test.</p>	<p>Tardy Policy: -Students must be in their seats ready to start class when the bell rings. -Students who are tardy will receive a teacher consequence appropriate to their infraction in accord with ACS policies as noted in the handbook.</p>
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Yearly Curriculum Map: Semester 1

Unit	Chapter(s)	Essential Questions:
Science Skills	1	-What is science? -What is the Scientific Method? -How do we use measurement in science? -What types of observations can we use in science?
Properties of Matter	2	-What is matter? -How can we classify matter? -What are chemical and physical changes in matter?
States of Matter	3	-What are the differences between states of matter? -What is necessary to change between different states of matter?
Atomic Structure	4	-What is the structure of an atom?
The Periodic Table	5	-How is the Periodic Table of the Elements useful in predicting atomic properties?

Chemical Bonds	6	-What properties of atoms allows them to bond with other atoms? -What are the different types of chemical bonds?
Chemical Reactions	7	-What are the different classes of chemical reactions? -How do we know when a chemical reaction has occurred? -What are some factors that affect chemical reactions?

Yearly Curriculum Map: Semester 2

Unit	Chapter	Essential Questions:
Motion	11	-What is motion? -How can we measure motion?
Forces and Motion	12	-What is force? -How can we measure force? -How does force relate to motion?
Forces in Fluids	13	-How are fluids affected by forces?
Work, Power, and Machines	14	-What is work and power and how is it measured? -What are the different types of simple machines and how do they work?
Energy	15	-What are some different types of energy? -Which laws govern the transfer of energy?
Mechanical Waves and Sound	17	-What are waves and how can we measure them?
The Electromagnetic Spectrum and Light	18	-What is the electromagnetic spectrum? -What theories can explain phenomena that we observe in the spectrum?

Electricity	20	-What causes electrical charges to occur? -What laws govern electricity? -How can we use electricity?
Magnetism	21	-What is a magnetic field? -What laws govern magnetic fields? -How do we use magnets in our everyday lives?

Academic Honesty and Personal Integrity

Personal integrity is expected of all students. It is your responsibility to conduct yourself in a manner that demonstrates respect for one's self, others, and the community at large. Honesty in word and deed is an expectation and a requirement. It is not possible to anticipate all potential breaches of personal integrity. However, you are urged to avoid conflicts stemming from cheating. Cheating is defined as:

- Copying another student's work during an examination or on homework
- Asking for or giving unauthorized assistance during any exam, paper, homework assignment, etc.
- Using written, verbal, or mechanical source(s) of information during an assessment without previous approval from the teacher
- Studying any copy of the current or previous assessments without authorization by the teacher
- To falsify information given in a written report, examination, or oral presentation
- To fail to follow specified instructions during an assessment

Any breaches of personal integrity outlined above, or possibly in other areas of individual behavior, will be considered a major infraction at the American Cooperative School and may result in the student receiving no credit for the paper, project, assessment, or course.

Plagiarism

Academic integrity requires that any ideas or materials taken from another source be fully acknowledged. Offering the work of someone else as one's own is plagiarism. This may range from isolated formulas, sentences, or paragraphs to entire articles or works copied from books, periodicals, the internet, speeches, or the writing of other students.

Parent Name (Printed): _____	Signature: _____
Student Name (Printed): _____	Signature: _____
Date: _____	