Course	Physical Science - 002 (Week B)
Location	Room 117 (Math/Physics Classroom)
Instructor	Mr. Bradley Windhorst
Planning Period	Week A – Period 5 Regular Bell Schedule: 1:31 – 2:40 Beginning Activity Bell Schedule: 1:40 – 2:40 Ending Activity Bell Schedule: 12:42 – 1:38 2-Hour Delay Bell Schedule: 1:55 – 2:40 ½ Day Bell Schedule: 9:18 – 9:30 Week B – Period 6 Regular Bell Schedule: 8:10 – 9:25 Beginning Activity Bell Schedule: 9:03 – 10:01 Ending Activity Bell Schedule: 8:10 – 9:09 2-Hour Delay Bell Schedule: 10:10 – 10:58 ½ Day Bell Schedule: 9:33 – 9:45 Parent / Teacher Conference may be during planning period or after school from 2:45 – 3:00pm
Email	bwindhorst@lcvt.tec.pa.us
Contact / Reminder App	Remind (Download available on Apple/Android/etc. – more details on contract/consent form provided.
Class Website	www.lcvt.tec.pa.us – School information www.bradwindhorst.com – Possible helpful classroom worksheets/guides and extra credit opportunities

<table>
<tr><td>Student Background / Prior Knowledge</td><td>General Science(s), Use of Numbers</td></tr>
<tr><td>Description</td><td>This year students will explore the fascinating world of Physical Science, which is the study of matter and energy. Physical Science is a combination of two branches of science---Chemistry and Physics. Chemistry is the study of the properties, composition, structure, and interactions of matter. Physics is the study of the relationship between matter and energy. Overall, this course will focus mainly on exploring and understanding the relationships between Science, Technology, Engineering, Mathematics, and Society (STEM). Emphasis includes nature of science, energy and motion, nature of matter, and chemical substances.</td></tr>
<tr><td>Text Used</td><td>Physical Science – Thompson, McLaughlin, Smith</td></tr>
<tr><td>Grading System</td><td>Standard Grading Scale Applies
<table>
<tr><th>Scale</th><th>Grade</th><th>Points (Per Semester)</th></tr>
<tr><td>90 – 100%</td><td>A</td><td>270 – 300</td></tr>
<tr><td>80 – 89%</td><td>B</td><td>240 – 269</td></tr>
<tr><td>70 – 79%</td><td>C</td><td>210 – 239</td></tr>
<tr><td>60 – 69%</td><td>D</td><td>180 – 209</td></tr>
<tr><td>< 60%</td><td>F</td><td>150 – 179</td></tr>
<tr><td>Incomplete</td><td>I</td><td>< 150</td></tr>
</table>
Points will be distributed as follows
<table>
<tr><th>Form of Assessment</th><th>Points</th></tr>
<tr><td>Participation</td><td>50</td></tr>
<tr><td>Homework</td><td>50</td></tr>
<tr><td>Labs</td><td>50</td></tr>
<tr><td>Quizzes</td><td>50</td></tr>
<tr><td>Tests</td><td>100</td></tr>
<tr><td>Total</td><td>300</td></tr>
</table>
Tests will include (can be changed):
1) Physical Science Basics
2) Energy and Motion
3) The Nature of Matter
4) Substances and Matter

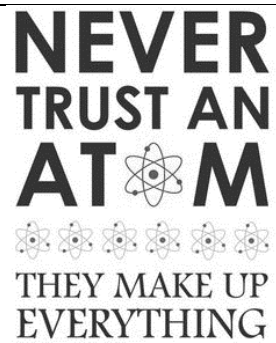
* Note – Grades / Points are subject to change based upon progression in the course. *</td></tr>
</table>

	<u>Academic Integrity</u> Students caught cheating, plagiarizing, copying homework and / or test, quizzes, and using a paper from the Internet will be given a "0" (zero) on that assignment. In addition, their name will be reported to the office and filed in the event of future violations. Repeated violation could result in removal from class and a non-passing grade. <u>Make-Up Work for Absences</u> Make-up work is the responsibility of the student. The amount of time given for make-up will be equal to the amount of time missed, with a maximum of two weeks given after returning to school. Make-up work not completed within the designated time will be recorded as an F grade. Make-up work is not permitted for any "unexcused" absence. <u>Tardy to Class</u> Students must arrive to class promptly. Any unexcused tardy to class of ten minutes or more, is equivalent to one period of unexcused absence. When a student is in jeopardy of failing, a progress report will be sent home. This will occur at the mid-point of each grading period or any time after.
Homework Policy & Philosophy	All assignments are incorporated into the grading system. Assignments should be completed neatly and in a timely manner. Frequent quizzes will be used to evaluate weekly progress. Unit tests are generally "take home" exercises, utilized to measure retention over an extended period of time. Homework, quizzes, and tests turned in more than five days after the due date will not receive credit. <u>Homework Philosophy</u> Homework assignments should be complementing the school instruction. The assignments should develop student responsibility, good study habits, and organization skills. Homework assignments should: 1) Provide practice and reinforcement of skills already presented by the teacher 2) Broaden areas of interest through enrichment. 3) Provide an opportunity for parents to know their child is studying. 4) Encourage parent and child interaction.

Classroom Rules	<u>Do</u> • Be Prompt • Be Respectful • Be Productive • Remain seated during class period <u>Always</u> • Be prepared for class – text, pencil, and assignment. <u>Never</u> • Violate school rules. <u>Never Ever</u> • Show disrespect for your fellow students.
Required Materials	• Composition Book as a Journal – Provided by Teacher • 3-ring binder OR 3-subject spiral notebook – Paper for binder is provided
Additional Help	See instructor to schedule additional help if needed. Teacher will be available till 3:00pm each day after school – this would be great time to ask additional questions, concerns, or for students seeking extra guidance.

Outline of Material Covered in this Course

Week	Material Covered During Time Period	Notes	Chapter
1	The Nature of Science	Problem solving that occurs in science and exploring the nature of science.	1
2	Physical Science Methods	The methods utilized in science including measurements, characteristics, units, and graphing.	2
3	Moving Objects	Describing objects and their motion.	3
4	Acceleration and Momentum	Projectile motion with action and reaction to physical context.	4
5	Energy Using Thermal Energy	Energy and work with inclusion of moving thermal energy and heating systems.	5 6

6	Machines	The use of machines to make work in general more adaptive.	7
7-8	Solids, Liquids, and Gases	Matter and temperature including changes in states of matter, and the use of fluids.	8
9	Classification of Matter	The composition of matter by descriptive actions.	9
10-11	Atomic Structure and the Periodic Table	The structure of the atom and models of atoms, and the characteristics of the periodic table.	10
12	Chemical Bonds	Atoms combining by chemical bonds and the makeup of certain compounds.	11
13	Elements and Their Properties	The comparison between metals, nonmetals, and mixed groups.	12
14	Organic and Biological Compounds	Simple organic compounds and biological compounds.	13
15	Useful Materials	Recycling materials and the overall use of specific materials in the scientific world.	14
16	Solutions	How solutions form and the particles that are in solutions.	15
17	Chemical Reactions	The chemical changes in matter, metals and the atmosphere, general chemical equations, types of chemical reactions, and energy and chemical reactions.	16
18	Acids, Bases, and Salts	General discussion of acids and bases, the strengths of acids and bases, and the inclusion of salts.	17

*Note – Schedule subject to change based upon progression in the course. *