

<b>Course Title: Integrated Science III A</b>	<b>Course Description</b>
<p><b>Course No.</b> 3357                      <b>Grade level:</b> 7-12</p> <p><b>Text and Resources:</b> A. <i>General Science</i>; AGS Publishing</p>	<p><b>Course Value:</b> *One Semester</p> <p><b>Credit Value:</b> 1 – 5 credits</p>
<b>Course Content: Key Content Standards and Course Objectives</b>	
<ol style="list-style-type: none"> <li>1. Physics: Motion and Forces: Newton’s laws (9/12-1 e-f), the velocity of an object is the rate of changes of its position (8-1a-f), tools and machines are used to apply forces to make things move (2-1d).</li> <li>2. Energy: Electricity and magnetism are related effects that have many useful applications in everyday life (4-1a-g), visible light is a small band within a very broad electromagnetic spectrum (7-6a-g), light has a source and travels in a direction (3-2), sound is made by vibrating objects and can be described by its pitch and volume (2-1g).</li> <li>3. Chemistry: Structure of Matter: elements (8-3, 8-7), the periodic table displays the elements in increasing atomic number (9-12- 1a-d), elements and their combinations account for all the varied types of matter in the world (5-1a-i), chemical reactions are processes in which atoms are rearranged into different combinations of molecules (8-5a-e).</li> <li>4. Geology: Plate tectonics explains important features of the Earth’s surface and major geologic events (6- 1a-g), Plate tectonics operating over geologic time has changed the patterns of land, sea, and mountains on Earth's surface (9-12), the properties of rock and minerals reflect the processes that formed them (4 -4a-b), topography is reshaped by weathering of rock and soil and by the transportation and deposition of sediment (6- 2a-d).</li> </ol>	<p>Integrated Science A is the first part of a standards-based science curriculum that incorporates the science strands of: physical, and Earth Science. An integrated approach to the science strands will provide students with a broad-based understanding of the interrelationship of the strands. Students will develop a command for the academic language of science, as scientific vocabulary is important in building conceptual understanding.</p> <p>The textbook maybe more appropriate for students who have already completed their science requirements but may want to further their study in science.</p>
<b>Methods of Study</b>	
<ol style="list-style-type: none"> <li>1. Students will complete all activities assigned.</li> <li>2. Students will participate in discussion with other class members and/or teacher.</li> </ol>	<p style="text-align: center;"><b>Evaluation of Performance Standards</b></p> <ol style="list-style-type: none"> <li>1. Students will complete all assignments and assessments with a minimum of 70% accuracy.</li> <li>2. The supervising teacher will be satisfied with the quality of the student’s work.</li> </ol>

Integrated Science III A  
**Course Outline: 3357**

**I. Textbook Assignment Options:**

B. *AGS General Science*, Part I (5.0 credits)

- Read: Chapters 1-12.
- Complete: all “Lesson Reviews,” “Chapter Reviews,” and “Unit Review” exercises.
- Complete one of the Extension Activities listed below.

**II. Extension Activity Options:**

1. There are two main types of chemical bonds. Use the Internet or library to research why they are important and describe each type. Write a 3 paragraph stating your results. Use Writing Rubric S II.
2. Create a PowerPoint presentation illustrating at least three types of simple machines and how they work. Your presentation must include at least 6 slides with labeled simple machines. Include a Title page in your presentation.
3. Use the Internet or library to research the four major types of plate movement. Define divergence, convergence, subduction, and transformation. Write a one page essay, or create a 6-slide PowerPoint presentation based upon your research. If you choose the essay, use Writing Rubric Exp. II.
4. Select a research project from chapters 1-12.
5. Teacher generated activity, approved by the site administrator.

**III. Evaluation**

- See your teacher for a unit test.
- All Writing assignments must meet the proficient level of the rubric provided by the teacher.
- All textbook work must meet 70% accuracy level for a “C” grade.