



ALTERNATIVE EDUCATION

<b>Course Overview</b>	Knowledge and Employability science provides basic science literacy. The courses promote awareness, understanding and the development and application of science skills, knowledge and attitudes for successful living at home, in the workplace and in the community.										
<b>Prerequisite</b>	<i>Please refer to Alberta Education's Provincially Authorized Senior High School Courses and Course Codes Document</i>										
<b>Required Materials &amp; Resources</b>	<ul style="list-style-type: none"> <li>• Four integrated module/assignment booklets</li> <li>• Periodic table</li> </ul>										
<b>Learning Outcomes</b>	<p><b>Students will explore the following themes:</b></p> <p>A. Handling chemicals safely, whether at home or in the workplace, requires an understanding of the properties of pure substances and mixtures. Students actively investigate the properties of a variety of matter, including mixtures and solutions and elements and compounds encountered in everyday life. The atom as the basic building block of matter is introduced. Students also investigate the classification of elements on the periodic table.</p> <p>B. Energy can be transferred by heat and by the use of force or distance multipliers called machines. The optimal design of such technologies is based upon an understanding of energy transfer, heat, temperature and force. Students understand that the design of energy transfer technologies takes into consideration the need for safety and for efficiency as a means of reducing reliance upon non-renewable energy resources.</p> <p>C. Life processes require the exchange of matter between living systems and the external environment. Students investigate life processes at the organism and system level. In closely studying the digestive and circulatory systems, students understand that a healthy diet and lifestyle is crucial to their wellness.</p> <p>D. Energy from the Sun sustains living systems and maintains equilibrium in the biosphere. In the biosphere, matter is recycled along natural pathways. Students learn, however, that increasing human population, human activity, use of energy and reliance on manufactured materials are having an impact on the movement of energy in the biosphere. This raises global concerns about sustainability.</p>										
<b>Note</b>	<b><i>Within Alternative Education all teachers are required to follow a common course outline and gradebook set up.</i></b>										
<b>Assessment</b>	<p>The student's grade is determined by the knowledge the student has acquired based on the program of studies and the skills the student is able to show in articulating his or her knowledge.</p> <p>The student's grade will be calculated based on the following:</p> <p><b>Coursework –25%</b></p> <p><b>Quizzes– 25%</b></p> <p><b>Midterm – 25%</b></p> <p><b>Final Exam – 25%</b></p>										
<b>Topics of Study</b>	<table border="0"> <thead> <tr> <th style="text-align: left;">MODULE</th> <th style="text-align: left;">TITLE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><i>Investigating Properties of Matter</i></td> </tr> <tr> <td>2</td> <td><i>Understanding Energy Transfer Technologies</i></td> </tr> <tr> <td>3</td> <td><i>Investigating Matter and Energy in Living Systems</i></td> </tr> <tr> <td>4</td> <td><i>Investigating Matter and Energy in Environmental Systems</i></td> </tr> </tbody> </table>	MODULE	TITLE	1	<i>Investigating Properties of Matter</i>	2	<i>Understanding Energy Transfer Technologies</i>	3	<i>Investigating Matter and Energy in Living Systems</i>	4	<i>Investigating Matter and Energy in Environmental Systems</i>
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<b>An Important Note About Assessment</b>	A wide range of assessment information is used in the development of a student's final grade. Within Alternative Education, individualized assessments provide specific information regarding student progress and overall performance in the course. Student assessments may vary from student to student to adapt to differences in student needs, learning styles, preferences and paces. The teacher will apply best teaching practices to determine appropriate assessment.										

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**TEACHER'S CONTACT INFORMATION:**

<b>Teacher's Name:</b>	
<b>Teacher's Phone Number:</b>	
<b>Teacher's Email Address:</b>	