



**MATHEMATICS 10-4**

**KAE1782**

**5 Credit Course**

<b>Course Overview</b>	Mathematics 10-4 is a Knowledge and Employability course which provides students with practical and applied opportunities to develop Mathematical skills. This course sequence is designed to provide students with the mathematical understandings to make connections between the components of mathematics and everyday home, workplace and community applications.														
<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>• Six Combined Module/Assignment Booklets</li> <li>• Calculator</li> <li>• No textbook is required</li> </ul>														
<b>Learning Outcomes</b>	<p><b>The student will:</b></p> <ul style="list-style-type: none"> <li>A. develop and demonstrate a number sense for whole numbers, common fractions, decimals, percents and integers and apply arithmetic operations to solve everyday problems.</li> <li>B. express and use patterns, variables and expressions, including those used in business and industry, with graphs to solve problems at home, in the community and in the workplace.</li> <li>C. use variables and equations to express, summarize and apply relationships as problem-solving tools in a restricted range of contexts.</li> <li>D. estimate, measure and compare using whole numbers, decimals, fractions and metric (SI) and Imperial units of measure to solve everyday problems.</li> <li>E. use visualization and symmetry to:             <ul style="list-style-type: none"> <li>• extend their awareness of objects and shapes</li> <li>• create and examine patterns and designs using congruence, symmetry, translation, rotation and reflection.</li> </ul> </li> <li>F. develop and implement a plan for the collection, display and examination of data and information, using technology and other strategies as required.</li> </ul>														
<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 –50%</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;"><b>MODULE</b></th> <th style="text-align: left;"><b>TITLE</b></th> </tr> </thead> <tbody> <tr> <td><b>1</b></td> <td><i>Understanding Numbers</i></td> </tr> <tr> <td><b>2</b></td> <td><i>Patterns, Formulas and Problem Solving</i></td> </tr> <tr> <td><b>3</b></td> <td><i>Metric and Imperial Measurements</i></td> </tr> <tr> <td><b>4</b></td> <td><i>Everyday Measurements</i></td> </tr> <tr> <td><b>5</b></td> <td><i>Working with Shapes</i></td> </tr> <tr> <td><b>6</b></td> <td><i>Using Data</i></td> </tr> </tbody> </table>	<b>MODULE</b>	<b>TITLE</b>	<b>1</b>	<i>Understanding Numbers</i>	<b>2</b>	<i>Patterns, Formulas and Problem Solving</i>	<b>3</b>	<i>Metric and Imperial Measurements</i>	<b>4</b>	<i>Everyday Measurements</i>	<b>5</b>	<i>Working with Shapes</i>	<b>6</b>	<i>Using Data</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.														

**TEACHER'S CONTACT INFORMATION:**

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