

<p><b>Course Description:</b></p> <p>This course emphasizes further development of mathematical knowledge and skills to prepare students for success in their everyday lives. This course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on developing and consolidating key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to further develop their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.</p>	<p><b>Level:</b> Essential</p>
	<p><b>Credit Value:</b> 1.0</p> <p><b>Pre-requisite:</b> None</p> <p><b>Department:</b> Mathematics</p>
<p><b>Course Fees:</b> None</p>	

<p><b>Textbooks &amp; Resources:</b></p> <ul style="list-style-type: none"> <li>• Growing Success: Assessment, Evaluation and Reporting in Ontario Schools</li> <li>• The Ministry Curriculum, Grades 9 &amp; 10, Locally Developed Compulsory Credit Courses, 2005 (revised)</li> <li>• MHR Math Essentials 9 (Replacement Cost: \$17.00)</li> </ul>
---

<p><b>Course Evaluation:</b> Student Evaluation consists of three components...</p>			
<p><b>1) Learning Skills &amp; Work Habits:</b></p> <p>Students are evaluated on 6 Learning Skills &amp; Work Habits. They are:</p> <ul style="list-style-type: none"> <li>• Responsibility</li> <li>• Organization</li> <li>• Independent Work</li> <li>• Collaboration</li> <li>• Initiative</li> <li>• Self-Regulation</li> </ul> <p>These six attributes are evaluated on a scale of Excellent (E), Good (G), Satisfactory (S) &amp; Needs Improvement (N) and reported on the report card. They <b>are not</b> included in the course mark, unless specified in the curriculum expectations.</p>			
<p><b>2) Term Mark (Assessment of Learning):</b></p> <p>Student performance standards for knowledge and skills are described in the curriculum Achievement Chart. The curriculum is assessed in four categories:</p> <ul style="list-style-type: none"> <li>• Knowledge and Understanding 40%</li> <li>• Thinking and Inquiry 15%</li> <li>• Communication 15%</li> <li>• Application 30%</li> </ul>	<p>Evaluation of these four categories generates the term mark. The term mark accounts for 70% of the final mark.</p> <p><b>It is the student's responsibility to submit evidence of learning.</b></p>		
<p><b>3) Final Evaluation (Assessment of Learning):</b></p> <p>The final evaluation, administered at or towards the end of the course is based on the evidence shown to the right. The final evaluation accounts for 30% of the final mark.</p>	<p>The final evaluation consists of:</p> <table> <tr> <td>Culminating Task</td> <td>30 %</td> </tr> </table>	Culminating Task	30 %
Culminating Task	30 %		
<p><b>Final Mark = 70% Term Mark + 30% Final Evaluation</b></p> <p>For a detailed description on Course Evaluation, see "How Did I Get That Mark!" at <a href="http://www.satec.on.ca">www.satec.on.ca</a></p>			

<p><b>Course Conduct Policies:</b> See Student Agenda.</p>
--

**Please retain this page in the front of your notebook for future reference.**



**Scarborough Academy for Technology,  
Environment & Computers @ WA Porter CI**

40 Fairfax Crescent, Scarborough, Ontario, M1L 1Z9  
Phone: (416) 396-3365 Fax: (416) 396-3371

## Math Essentials, Grade 9 MAT1L1

### Course Outline:

Unit	Description	Approximate Length	Major Unit Evaluation
Money Matters	budgeting and personal spending, rounding, estimating and calculating change, calculating discounts and tax, comparing unit costs	2 weeks	assignments, tests, quizzes
Metric Linear Measurement	estimate and measure length, capacity, and mass, in order to consolidate understanding of the metric system	2 weeks	assignments, tests, quizzes
Imperial Linear Measurement	estimate and measure length, using the Imperial system	2 weeks	assignments, tests, quizzes
Cooking	investigate capacity and mass, find personal references for capacity, measure capacity, use fractions and ratios to modify recipes, determine the better buy	2 weeks	assignments, tests, quizzes
Sports & Leisure	determine equivalent ratios and rates, solve perimeter and rate problems, draw scale diagrams using metric and Imperial measure; solve problems using unit costs, expenses, tax, change, sales and revenue	2 weeks	assignments, tests, quizzes
Dining Out	round money amounts, make change, solve rate problems, add decimals and fractions, calculate tax and change	2 weeks	assignments, tests, quizzes
Home Improvement	estimate distances using personal references for length, measure area of rectangles and triangles using standard and non-standard units, calculate areas of composite figures	2 weeks	assignments, tests, quizzes
Healthy Choices	develop personal references for mass, measure volume and mass, calculate percents, rates and conversions	2 weeks	assignments, tests, quizzes
Packaging & World of Work	measure dimensions, investigate volume of regular and irregular packages; solve problems using rates of pay and time, calculate commissions, budgeting	2 weeks	assignments, tests, quizzes

**Note: The order of the units of study may change due to student needs and resources available during the course.**

### General Information:

Mathematics continually builds on previous lessons. Hence, daily attendance is important. Students are responsible for catching up on missed lessons and work.

It is expected that all students will write tests as a class group. If a student is unable to write the evaluation with the class, then the student must inform the teacher at least two school days in advance of the test so that alternate arrangements can be made.

Students who are absent on the day of the test due to illness or a family emergency must have their parents phone the math office at 416 396-3365 x20245 on the day of the test explaining why they will be absent. (Doctor's notes will be required from students who miss more than one scheduled test.) Alternate arrangements will be made for these students to write the test.

Students missing their tests or assignment deadlines due to unexplained absences will receive a mark of zero.

For more information on the missed test/assignment policies, please see the agenda.