

MATH 10-3 COURSE OUTLINE

Mr. Yasinski

Course Objective: Math 10-3 is an apprenticeship and workplace math course. In this course, students will continue to develop their numeracy skills and problem solving abilities. Course matter deals with converting SI units to imperial units and real life examples relating to volume of an object as well as mass., using Pythagorean theorem to find missing angles and sides of triangles and having a sense of numbers relating to wages, contracts and currency exchanges. Not only will Students be learning the required material, but acquiring and enhancing lifelong skills such as work ethic, responsibility and collaboration with others.

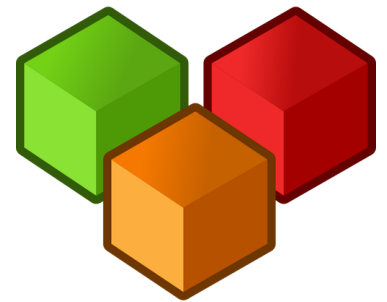
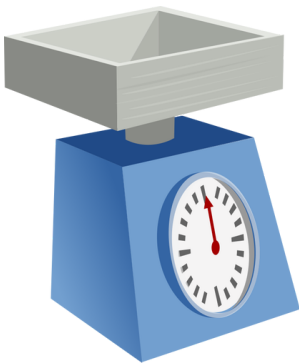
Materials: Pencils to every class (You can not erase using a pen!)

Lined paper

Graph paper

Binder

Scientific Calculator



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Dates are approximate

Unit	Dates
<p style="text-align: center;"><u>Number</u></p> <p><input type="checkbox"/> Demonstrate an understanding of income, including wages, salary, contracts, commissions and piecework, to calculate gross pay and net pay.</p> <p><input type="checkbox"/> Solve problems that involve unit pricing and currency exchange, using proportional reasoning.</p>	<p style="text-align: center;">September 1 - October 7</p>
<p style="text-align: center;"><u>Geometry</u></p> <p><input type="checkbox"/> Analyze puzzles and games that involve spatial reasoning, using problem-solving strategies.</p> <p><input type="checkbox"/> Demonstrate an understanding of the Pythagorean theorem by identifying situations that involve right triangles, verifying the formula, applying the formula, and solving problems.</p> <p><input type="checkbox"/> Demonstrate an understanding of similarity of convex polygons, including regular and irregular polygons.</p> <p><input type="checkbox"/> Demonstrate an understanding of primary trigonometric ratios (sine, cosine, tangent) by applying similarity to right triangles, generalizing patterns from similar right triangles, applying the primary trigonometric ratios and solving problems.</p> <p><input type="checkbox"/> Solve problems that involve parallel, perpendicular and transversal lines, and pairs of angles formed between them.</p> <p><input type="checkbox"/> Demonstrate an understanding of angles, including acute, right, obtuse, straight and reflex, by drawing, replicating and constructing, bisecting and solving problems.</p>	<p style="text-align: center;">October 12 - November 25</p>
<p style="text-align: center;"><u>Measurement</u></p> <p><input type="checkbox"/> Demonstrate an understanding of the Systeme International(SI) by describing the relationships of the units for length, area, volume, capacity, mass and temperature, and by applying strategies to convert SI units to imperial units.</p> <p><input type="checkbox"/> Demonstrate an understanding of the imperial system by describing the relationships of the units for length, area, volume, capacity, mass and temperature,</p>	<p style="text-align: center;">November 29 - January 25</p>

<p>comparing the American and British imperial units for capacity, and applying strategies to convert imperial units to SI units.</p> <p><input type="checkbox"/> Solve and verify problems that involve SI and imperial linear measurements, including decimal and fractional measurements.</p> <p><input type="checkbox"/> Solve problems that involve SI and imperial area measurements of regular, composite and irregular 2-D shapes and 3-D objects, including decimal and fractional measurements, and verify the solutions.</p>	
<p style="text-align: center;"><u>Algebra</u></p> <p>Embedded in every unit is the study of algebra. You will be expected to demonstrate algebraic skills throughout the course. This includes:</p> <p><input type="checkbox"/> Solving problems that require the manipulation and application of formulas related to perimeter, area, the Pythagorean theorem, primary trigonometric ratios, and income.</p>	

Evaluation:

Course Work.....	70%
Quizzes/Assignments	60% of course work
Unit Exams	40% of course work
Final Exam.....	30%
Total.....	100%

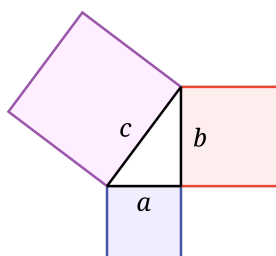
Marks during the year are cumulative and are a combination of Quizzes and Unit Exams completed to that date.

The end of term report card is a combination of all your cumulative Course Work and a Final Exam.

Keeping in Contact:

Mr. Yasinski may be contacted at Fairview High School, 780-834-8917 during the day. You may also send an email to yasinski@prsd.ab.ca. I will check email twice daily on school days (8:00am and 3:30pm).

Your progress may be regularly checked on the Powerschool website (accessible via <http://www.prsd.ab.ca>); student marks will be updated weekly.



Class Expectations:

1. Come to class on time and prepared. Class starts after PULSE so you should not be running late from another class. What you need for the class will usually be posted when you come in. Have the necessary material and ready to roll!
2. Regular Attendance. Being present and attentive during each lecture will ensure that you are not missing key concepts and will assist you in developing your math skills. It is YOUR responsibility to catch up on missing work if absences are unavoidable.
3. All assignments will be due at the START of class. If an assignment is due on Wednesday, it is due at the start of Wednesday's class, not after.
4. Work ethic will be one of the ultimate factors in determining your academic success in this class. By putting in the time and effort into assignments, engaged in the lessons and willingness to learn, you will exceed your academic goals. Everyone should get a goal and pursue to achieve it.

Teaching Methodology:

Students will be taught through a variety of different instructional methods and strategies including, but not limited to direct teaching, cooperative learning, independent learning, brainstorming, small and large group discussions, inquiry-based research assignments, reflections to literature, technological means including the use of a Smartboard, videos, online tools, an interactive response system and, where appropriate, personally owned devices.

My goal in Math 10-3 is:

Every
Accomplishment
starts with the
decision to try.

Q U O T E D I A R Y . M E