

# **MATH 10-4 COURSE OUTLINE**

Mr. Yasinski

**Course Objective:** Through Knowledge and Employability courses, students become active and responsible citizens, achieve their educational and career goals, improve quality of life for themselves and their families and positively impact their communities.

## Goals of this course:

Provide students with practical applied opportunities to develop competencies necessary to meet or exceed:

Senior high school credentials

Enter the workplace upon leaving school with employability and occupational skills that meet industry standards

Make successful transitions to other courses or to further education and training

Become responsible and contributing members of society

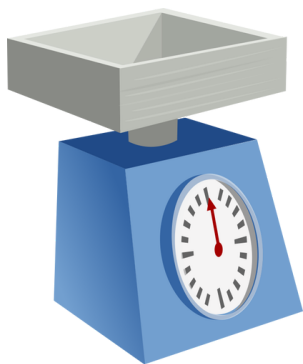
**Materials:** Pencils to every class (You can not erase using a pen!)

Lined paper

Graph paper

Binder

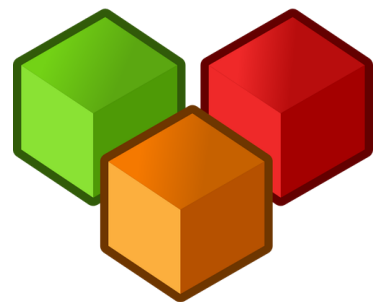
Scientific Calculator



Time  
Dates are



Frame:  
approximate



Unit	Dates
<p style="text-align: center;"><b><u>Number</u></b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> estimate and solve problems using numbers, money, decimals, percents, fractions, ratios and proportion in everyday home, workplace and community contexts, using technology as appropriate</li> <li><input type="checkbox"/> develop and demonstrate number sense to describe quantities, represent numbers in multiple ways and apply appropriate arithmetic operations</li> <li><input type="checkbox"/> assess the reasonableness of calculations and problem-solving strategies</li> <li><input type="checkbox"/> communicate mathematically and investigate the application of number concepts and operations in a variety of career and workplace situations, working individually or as a member of a team.</li> </ul>	<p style="text-align: center;">September 1 - October 7</p>
<p style="text-align: center;"><b><u>Patterns and Relationship</u></b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> recognize that patterns and relationships exist in nature and everyday living</li> <li><input type="checkbox"/> use patterns and relationships to develop a better understanding of their environments and to solve everyday problems at home, in the workplace and in the community, using technology as appropriate</li> <li><input type="checkbox"/> assess the reasonableness of calculations and problem-solving strategies</li> <li><input type="checkbox"/> communicate mathematically and investigate the application of patterns and relationships in a variety of career and workplace situations, working individually or as a member of a team.</li> </ul>	<p style="text-align: center;">October 12 - November 25</p>
<p style="text-align: center;"><input type="checkbox"/> <b><u>Measurement</u></b></p> <p style="text-align: center;"><input type="checkbox"/></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> estimate and take accurate measurements using everyday metric (SI) and Imperial units of measure</li> <li><input type="checkbox"/> solve problems using appropriate measuring devices, i.e., metric (SI) and Imperial, strategies and technology in home, workplace and community contexts</li> <li><input type="checkbox"/> communicate mathematically and investigate the application of measurement knowledge and skills in a variety of career and workplace situations, working individually or as members of a team</li> <li><input type="checkbox"/> assess the reasonableness of calculations and problem-solving strategies.</li> </ul>	<p style="text-align: center;">November 29 - December 17</p>

<input type="checkbox"/> create, examine and manipulate 3-D objects and 2-D shapes, using transformations and technology, and other tools as appropriate, to better understand shapes and objects at home, in the workplace and in the community <input type="checkbox"/> communicate mathematically and investigate the application of shape and space in a variety of career and workplace situations, working individually or as members of a team.	
<div style="text-align: center;"><input type="checkbox"/> <b>Statistics</b></div> <input type="checkbox"/> collect, generate, interpret, examine and maintain data, charts, graphs and other records for personal use at home, in the workplace and in the community, using technology as appropriate <input type="checkbox"/> use probability, chance and predictions when planning and making everyday decisions <input type="checkbox"/> assess the reasonableness of calculators and problem-solving strategies <input type="checkbox"/> communicate mathematically and investigate, collect and examine information in a variety of career and workplace situations, working individually or as members of a team.	January 3- 25

### 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 [yasinskil@prsd.ab.ca](mailto:yasinskil@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 10-4 is:

Every  
*Accomplishment*  
starts with the  
decision to try.

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