

MATH 20-3 COURSE OUTLINE

Mr. Yasinski

Course Objective: Math 20-3 is an apprenticeship and workplace math course. In this course, students will continue to develop their numeracy skills and problem solving abilities. This course will build upon concepts in Math 10-3. 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 statistics through various graphing techniques. Not only will Students be learning the required material, but acquiring and enhancing lifelong skills such as work ethic, responsibility and collaboration with others.

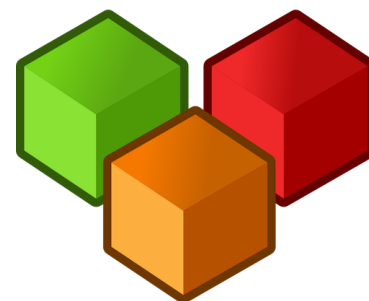
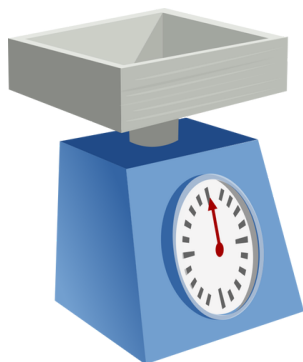
Materials: Pencils to every class (You can not erase using a pen!)

Lined paper

Graph paper

Binder

Scientific Calculator



Unit

Number

- ☐ Analyze puzzles and games that involve numerical reasoning, using problem-solving strategies.
- ☐ Solve problems that involve personal budgets.
- ☐ Demonstrate an understanding of compound interest.
- ☐ Demonstrate an understanding of financial institution services used to access and manage finances.
- ☐ Demonstrate an understanding of credit options, including:
 - ☐ • credit cards
 - ☐ • loans.

Geometry

- ☐ Solve problems that involve two and three right triangles.
- ☐ Solve problems that involve scale.
- ☐ Model and draw 3-D objects and their views.
- ☐ Draw and describe exploded views, component parts and scale diagrams of simple 3-D objects.

Measurement

- ☐ Solve problems that involve SI and imperial units in surface area measurements and verify the solutions.
- ☐ Solve problems that involve SI and imperial units in volume and capacity measurements.

Algebra

- ☐ Solve problems that require the manipulation and application of formulas related to:
 - ☐ • volume and capacity

- ☐ • surface area
- ☐ • slope and rate of change
- ☐ • simple interest
- ☐ • finance charges.
- ☐ Demonstrate an understanding of slope:
 - ☐ • as rise over run
 - ☐ • as rate of change
 - ☐ • by solving problems.
- ☐ Solve problems by applying proportional reasoning and unit analysis.

Statistics

- ☐ Solve problems that involve creating and interpreting graphs, including:
 - ☐ • bar graphs
 - ☐ • histograms
 - ☐ • line graphs
 - ☐ • circle graphs.

Evaluation:

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

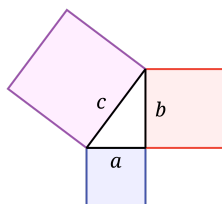
Marks during the year are cumulative and are a combination of Quizzes and Unit Exams completed to that date.

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. 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. Ask if you have any questions. If what I say does not make sense to you, ask me to repeat it in a different way. I make more mistakes than you think. Ask for clarification.
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 20-3 is:

Every
Accomplishment
starts with the
decision to try.

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