

Math 20-3 Course Syllabus

Ms. Crumpton
Sept 2011-Jan 2012

Students

- Attend every class
- Arrive on time
- Bring calculator, paper, pencil and eraser
- Come prepared to work for the full class block

Teacher

- Provides time to learn and practice each step
- Provides review as necessary
- Provides frequent feedback
- Will teach in a variety of ways
(notes, worksheets, assignments, group work, and hands-on activities)

Course Resources

Textbook: MathWorks 20

Mathematics for Apprenticeship and Workplace 20

Course Evaluation

Unit	Course Weighting	Approximate Dates
Measurement	10%	Sept 1-Sept 23
Algebra	10%	Sept 26-Oct 12
Number	20%	Oct 13-Nov 1, Nov 8-Nov 22
Geometry	20%	Nov 14-Dec 21
Statistics	5%	Jan 9-13
Midterm	10%	Nov 7
Final	25%	TBA

Student work will be collected on a weekly basis. Grades will be based on a variety of assessments such as quizzes, assignments, activities and unit tests.

As per the Alberta Program of Studies for Mathematics 20-3, the learning outcomes listed on the back of this page will be covered in this course.

Measurement

Students will develop spatial sense through direct and indirect measurement.

Students will:

- 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

Students will develop algebraic reasoning

Students will:

- solve problems that require manipulation and application of formulas related to volume and capacity, surface area, slope and rate of change, simple interest, and finance charges
- Students will demonstrate an understanding of slope
- Students will solve problems by applying proportional reasoning and unit analysis

Number

Students will develop number sense and critical thinking skills.

Students will:

- 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 and loans

Geometry

Students will develop spatial sense

Students will:

- 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

Statistics

Students will develop statistical reasoning

Students will:

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