Math 20-3 Course Syllabus

Peace River High School 2013-2014 (Semester 1)

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**Course Materials**

* Textbook: Mathworks 11
* Mathematics for Apprenticeship and workplace 11
* Bring a scientific calculator, binder/paper, pencil and eraser

**Course Evaluation**

|  |  |  |
| --- | --- | --- |
| Unit | Course Weighting | Approximate Dates  |
| Measurement | 10% | Sept 3 – Sept 20 |
| Slope and Rates | 10% | Sept 23-Oct 10 |
| Finance | 20% | Oct 15 – Nov 15 |
| Geometry | 20% | Nov 18- Dec 20 |
| Graphing | 5% | Jan 6 – Jan 17 |
| Midterm | 5% | November 7 |
| Final | 30% | TBA |

Notes;

* Grades for each unit will be based on a variety of assessments such as quizzes, assignments, and activities worth 70% of the unit and 30% on unit tests. Student work will be collected on a weekly basis.
* The above dates are a rough estimate of the timeline. It may change according to the needs of the class.

**Expectation of Students for Success:**

* Attend every class
* Arrive on time
* Bring a calculator, binder/paper, pencil and eraser
* Be ready to work for the full class block

**Expectation of Teacher for Success**

* Provide time to learn and practice each step.
* Provides reviews as necessary.
* Provides frequent feedback
* Teach in a variety of ways (notes, worksheets, assignments, group work, hand-on activities)

**You can go online to** [**www.prsd.ab.ca**](http://www.prsd.ab.ca) **under parents/students then homelogic to check your marks!**

# General Outcomes (As per Alberta Program of Studies)

**Measurement**

*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**

*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**

*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 card options including credit cards and loans.

***Geometry***

*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**

*Develop statistical reasoning.*

Students will

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