** Course Outline**

 *Financial and Workplace Mathematics 113*

**Teacher**: *T. Cabel –* *troy.cabel@nbed.nb.ca*Blackville School

[http://blackville.nbed.nb.ca/teacher/mr-cabel](https://exchange2.nbed.nb.ca/owa/redir.aspx?C=580bb772fdfa4026a603656e0710b6c0&URL=http%3a%2f%2fblackville.nbed.nb.ca%2fteacher%2fmr-cabel) Tel: 506 843-2900

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Textbook: Math at Work 11

**Course Description**

This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority of trades and for direct entry into the workforce. This is a compulsory course that meets the graduation requirement of one Mathematics course at the Grade 11 level and is a prerequisite course for Grade 12 Math courses.

**Unit 1 – *Geometry***

* Solve problems that involve 2 and 3 right triangles
* Solve problems that involve scale
* Model and draw 3D objects and their views
* Draw and describe exploded views, component parts, and scale diagrams of simple 3D objects

**Unit 2 – *Number***

* Analyze puzzles and games that involve numerical reasoning, using problem solving strategies
* Analyze costs and benefits of renting, leasing and buying
* Analyze an investment portfolio in terms of interest rate, rate of return, total return
* Solve problems that involve personal budgets

**Unit 3 – *Algebra***

* Solve problems that require the manipulation and application of formulas related to: slope, rate of change, rule of 72, finance charges, Pythagorean Theorem, and trigonometric ratios
* Demonstrate an understanding of slope
* Solve problems by applying proportional reasoning and unit analysis

**Unit 4 – *Statistics***

* Solve problems that involve creating and interpreting graphs (bar, histograms, line, circle)

*\*These units of study may not be completed in order. Also, students will be responsible for class work and, if necessary, should make arrangements when possible if an absence occurs. Additional mini-lessons may be given if I note particular areas of struggle.*

**Evaluation**

### Test /Projects : 50%

### In class Assignments/

### Quizzes 20%

### Exam 30%