**Financial and Workplace Mathematics 11**

**2017-2018**

**TEACHER:**

 **Mrs. Godfrey**

**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.**

**TEXTBOOK:**

 **Math at Work 11**

**COURSE MATERIAL (if time permits):**

 **UNIT: TIME-LINE: TOPICS:**

**🗸 ALGEBRA** 4 weeks • 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.

**🗸 GEOMETRY** 5 weeks • 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.

**🗸 NUMBER** 5weeks • 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.

**🗸 STATISTICS** 2 weeks • Solve problems that involve creating and interpreting graphs (bar, histograms, line, circle).

**EVALUATION:**

 **Tests....................................................................................................... 40%**

 **Quizzes/Assignments...................................................................... 20%**

 **Classmark/Homework..................................................................... 10%**

 **Exam........................................................................................................ 30%**