**MATH 8 COURSE OUTLINE**

Mr. Bergen Henengouwen – 2013/2014

**Strand 1 – Number**

Chapter 1 - Number Relationships

1. Perfect Squares/Square Roots **Sept. 4 – 19**

Chapter 2 – Fraction Operations

1. Multiplying fractions/mixed numbers
2. Dividing fractions/mixed numbers **Sept. 16 – Oct. 11**
3. Modelling multiplication/division of fractions

Chapter 3 – Ratios and Rates

1. Expressing ratios and rates **Oct. 14 – Nov. 6**
2. Proportional reasoning

Chapter 4 – Percents

1. Fractional Percents
2. Percents between 0% and 1%
3. Percents greater than 100% **Nov. 7 – Dec. 11**
4. Fraction/Decimal/Percent conversions
5. Combined Percentages

Chapter 6 – Integers

1. Multiplying Integers
2. Dividing Integers **Dec. 12 – Jan. 10**
3. Modelling multiplication/division of integers

**Review for midterm will take place January 13-17 if time permits**

**MIDTERM WILL OCCUR DURING THE EXAM WEEK OF 20-24**

**Strand 2 – Patterns and Relations**

Chapter 9 – Linear Relations and Equations

1. Graphing linear relations **Jan. 27 – Feb. 28**
2. Solving linear equations

**Strand 3 – Shape and Space**

Chapter 1 & 5 – Measurement

1. Pythagorean Theorem
2. Nets of 3-D objects **March 3 – March 28**
3. Surface area of prisms and cylinders
4. Volume of prisms and cylinders

Chapter 11 – 3-D Geometry

1. Views of 3-D objects
2. Isometric drawings **March 31 – April 17**
3. Rotations of 3-D objects
4. Congruence of polygons

**Strand 4 – Statistics and Probability**

Chapter 8 – Data Analysis

1. Comparing different types of graphs **April 28 – May 20**
2. Misleading graphs

Chapter 10 – Probability

1. Probability of independent events **May 21 – June 13**
2. Calculating probability

**Review for midterm will take place June 16 – 20 if time permits**

**FINAL EXAM WILL BE SCHEDULED BETWEEN JUNE 23 AND JUNE 26**

**\*** These dates for each unit are approximate only. Some adjustments may be made during the school year.

\* Each chapter and/or strand will involve a problem solving component, therefore, it is not listed separately for the strands outlined above.

**Evaluation**

Strand – the mark for each strand will be based on the following components:

Assignments ................................................................. 70%

Tests and Quizzes ........................................................ 30%

Total – Your overall mark for the course will be based on your strand marks, your midterm mark, and your final exam mark.

Strand marks ................................................................ 65%

Strand 1 – Numbers ........................................... 30%

Strand 2 – Patterns and Relations ...................... 10%

Strand 3 – Shape and Space ............................... 15%

Strand 4 – Statistics and Probability ................. 10%

Midterm (Jan 20 – 24) ................................................ 10%

Final Exam ( June 23 - 26) ......................................... 25%

**Exemptions**

If your mark in Math 8 is 85% or higher at the time of the final exam, you may choose not to write the final exam. You may also choose to write the final exam without penalty. This means that if you score below your average on the final exam, then the final exam mark will not count towards your final mark.

**Textbook**

You will be issued a copy of the “MathFocus 8” textbook at the beginning of the school year. You must return the same book to the library as you were issued or you will be charged for a new textbook.

**Supplies** – You will need the following supplies for the Grade 8 math course:

* 300 sheets of looseleaf and a binder for math (preferably 2”)
* pencils and a ruler
* calculator with square root button () **Not your cell phone or IPod!**
* 50 sheets of graph paper (0.5 cm x 0.5 cm)

**Guidelines**

* Come to class on time with all necessary materials
* Work hard and try your best
* Practice good listening skills – keep your cell phone off and in your pocket
* Practice good study skills
* Arrange for extra help outside of class time if you need extra help. My door is always open!!

Good Luck!

If you have any questions or concerns please call me at the school or e-mail.

My e-mail is:

 Bergenhenengouwena@holyspirit.ab.ca