**Grade 8 Math Course Outline (Mr. Bockstael) 2020/2021**

**Areas of study:**

- ***Mental Math*** – practice using all mathematical operations (+, -, x, ÷) for integers (whole numbers).

- ***Squaring numbers/Square roots*** of perfect and non-perfect squares

- ***Pythagorean Theorem***

- ***Multiplying and Dividing*** fractions and mixed numbers

- ***Rational numbers*** (includes placing; ordering & comparing; all mathematical operations (+, -, x, ÷) for fractions and mixed numbers.

- ***Rate/Ratio*** and creating proportion statements to solve problems

- ***Percent*** - including fractional percents, (percents less than 1) and percents greater than 100%

- ***Algebra*** (including solving for “x”; using multiple steps for solving; graphing and analyzing linear relations)

- Analyzing and constructing ***nets for 3D objects*** (ie. patterns)

- ***Surface area and volume*** of 3D objects

*Note:* For a list of all grade 8 math outcomes, see “grade\_8\_mathematics\_targets.docx” on Mr. Bockstael’s weebly (grade 8 math page – about ½ way down the bottom of the page).

**Assessment:**

- All test and quizzes are cumulative in nature.

- Term marks will be calculated as a running total and will comprise 80% of the final mark.

- A final exam will take place in June and will cover all concepts taught over the course of the school year.

\* The exam will comprise 20% of the final mark.