

Incoming Grade 8 Math Skills 2018

All students should have a mastery of the following:

- **ALL** basic math facts (addition, subtraction, multiplication, and division)
- How to perform the four operations (addition, subtraction, multiplication, and division)
- How to solve word problems

Grade 6:

With whole numbers:

- Recognize place values to 1,000,000,000
- Round and estimate
- Compare and order
- Add, subtract, and multiply multi-digit numbers
- Divide with 2 digit divisors

Fractions and mixed numbers:

- Know the terms, *numerator, denominator, mixed number*
- Reduce to simplest form
- Find equivalent fractions
- Do simple addition and subtraction
- Recognize fractions in place value system

Decimals:

- Recognize place value to .001
- Recognize decimals in place value system
- Add, subtract, multiply and divide decimals

Grade 7:

Whole numbers using order of operation

Whole numbers with exponents

Perfect squares up to $20 \times 20 = 400$

Decimals:

- Recognize place value to .00001
- Round and estimate
- Compare and order
- Addition, subtraction, multiplication, and division of decimals
- Convert decimals to fractions and fractions to decimals

Fractions and mixed numbers:

- Round and estimate
- Compare and order
- Addition, subtraction, multiplication, and division
- Convert from mixed number to improper fraction and improper fractions to mixed numbers

Grade 8:

- Addition, subtraction, multiplication, and division of positive or negative integers
- Solve one step and two step equations
- Working with exponents