**Grade 8**

**Unit 2 - Integers**

**In this unit I will be able to:**

* **Multiply and divide integers**
* **Use order of operations with integers**
* **Solve problems involving integers**

**Terms that are important in this unit:**

**negative integer – a number less than 0**

**e.g. ( - 5 )**

**positive integer – a number greater than 0**

**e.g. ( 7 ) or ( +6 )**

**zero pair – two opposite integers whose sum is equal to 0**

**e.g. ( +7 ) + ( - 7 ) = 0**

**opposite integer - two integers with a sum of 0**

**e.g. (+3) and (- 3) are opposite integers**

**zero property – this property works for addition and multiplication**

**for addition - adding 0 to a number does not change the number; for example, 3 + 0 = 3**

**for multiplication - multiplying a number by 0 results in the product 0;**

**for example, 3 x 0 = 0**

**distributive property - the property stating that a product can be written as a sum or**

**difference of two products**

**e.g. *a*(*b* + *c*) = *ab* + *ac* or *a*(*b* – *c*) = *ab* – *ac***

**commutative property – the property of addition and multiplication that states that**

**numbers can be added or multiplied in any order**

**e.g. 3 + 5 = 5 + 3 3 x 5 = 5 x 3**

**product – the answer to a multiplication question of 2 or more factors**

**quotient – the answer to a division question**

**order of operations - the rules that are followed when simplifying or evaluating an**

**expression**

**B – brackets**

**E – exponents**

**D – division**

**M – multiplication**

**A – addition**

**S – subtraction**