Grade 7 Term 2

Curriculum Overview

Grade 7 Math Mr. Cripps

Each strand is addressed with a major emphasis and strands are interrelated whenever possible to provide a rich variety of math experiences for students.

**Term 2**

**Unit 4: Circles and Area 4 Weeks**

General Outcome

* Use direct or indirect measurement to solve problems.

Specific Outcome

**SS1:** Demonstrate an understanding of circles by:

• describing the relationships among radius, diameter and circumference of circles

• relating circumference to pi

• determining the sum of the central angles

• constructing circles with a given radius or diameter

• solving problems involving the radii, diameters and circumferences of circles.

 Lessons

 -Investigating circles

 -Circumference of a circle

 -Area of a parallelogram, triangle and circle

 -Interpreting circle graphs

 - Drawing circle graphs

**Unit 5: Operations with Fractions 4 Weeks**

General Outcome

-Develop number sense.

 Specific Outcome

**N5:** Demonstrate an understanding of adding and subtracting positive fractions mixed numbers, with like and unlike denominators, concretely, pictorially symbolically (limited to positive sums and differences).

 Lessons

 -Using Models to Add Fractions

 -Using Symbols to Add Fractions

 -Using Models to Subtract Fractions

 -Using Symbols to Subtract Fractions

 -Adding an Subtracting with Mixed Numbers

**Unit 6: Equations 3 Weeks**

General Outcome

* Represent algebraic expressions in multiple ways.

Specific Outcome

**PR3:** Demonstrate an understanding of preservation of equality by:

• modeling preservation of equality, concretely, pictorially and symbolically

• applying preservation of equality to solve equations.

**PR4**: Explain the difference between an expression and an equation.

**PR6**: Model and solve problems that can be represented by one-step linear equations of the form *x + a = b*, concretely, pictorially and symbolically, where *a* and *b* are

 integers.

**PR7**: Model and solve problems that can be represented by linear equations of the form:

 • *ax + b = c*

• *ax = b*

Lessons

 -Solving Equations

 - Using a Model to Solve Equations

 - Solving Equations Involving Integers

 - Solving Equations Using Algebra

 -Using Different Methods to Solve Equations

 - Decoding Word Problems

Marking Scheme

 Class work (anecdotal), Participation 20%

 Homework assignments 10%

 Mental Math 10%

 Quizzes 20%

 Test 40%