

## Tamanawis Secondary School

12600 – 66<sup>th</sup> Avenue, Surrey, BC, V3W 2A8

Tel: 604-597-5234 Fax: 604-597-4450



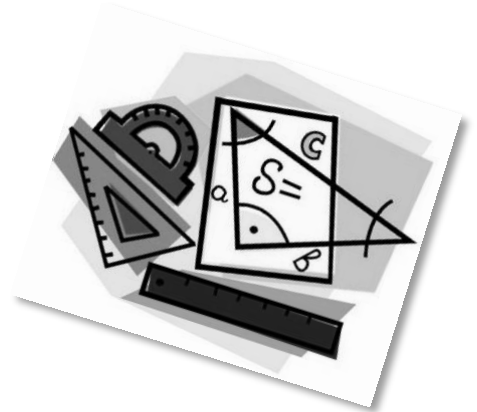
## Math 9 Course Outline 2013 – 2014

### Textbook **Math Makes Sense 9**

*The student is responsible for returning the textbook in the same condition that it was issued and will be charged a replacement fee if the textbook is damaged or lost.*

### Supplies

Binder with dividers  
Lined and Graph Paper  
Pencil, pen, eraser, ruler  
Scientific Calculator



### Assessment

Marks will be based on:

Unit Tests  
Quizzes  
Assignments/Projects  
Final District Exam

**Students are expected to complete all assigned work on a timely basis. If a student fails to complete any assignments, he/she will be given an *Incomplete* grade for the course until all missing assignments have been completed.**

## **Chapter 1 Square Roots and Surface Area**

- Square Roots of Perfect Squares
- Square Roots of Non-perfect Squares
- Surface Areas of Objects made from Right Rectangular Prisms
- Surface Area of Other Composite Objects

## **Chapter 2 Powers and Exponent Laws**

- What is a Power?
- Powers of Ten and the Zero Exponent
- Order of Operations with Powers
- Exponent Laws I
- Exponent Laws II

## **Chapter 3 Rational Numbers**

- What is a Rational Number?
- Adding and Subtracting Rational Numbers
- Multiplying and Dividing Rational Numbers
- Order of Operations with Rational Numbers

## **Chapter 4 Linear Relations**

- Writing Equations to Describe Patterns
- Linear Relations
- Another Form of the Equation for a Linear Relation
- Matching Equations and Graphs
- Using Graphs to Estimate Values

## **Chapter 5 Polynomials**

- Modelling Polynomials
- Like Terms and Unlike Terms
- Adding and Subtracting Polynomials
- Multiplying and Dividing a Polynomial with a Constant
- Multiplying and Dividing a Polynomial with a Monomial

## **Chapter 6 Linear Equations and Inequalities**

- Solving Equations Using Inverse Operations
- Solving Equations Using Balance Strategies
- Introduction to Linear Inequalities
- Solving Linear Inequalities Using Addition and Subtraction
- Solving Linear Inequalities Using Multiplication and Division

## **Chapter 7 Similarity and Transformations**

- Scale Diagrams and Enlargements
- Scale Diagrams and Reductions
- Similar Polygons
- Similar Triangles
- Reflections and Line Symmetry
- Rotations and Rotational Symmetry
- Identifying Types of Symmetry

## **Chapter 8 Circle Geometry**

- Properties of Tangents to a Circle
- Properties of Chords in a Circle
- Properties of Angles in a Circle

## **Chapter 9 Probability and Statistics**

- Probability in Society
- Potential Problems with Collecting Data
- Using Samples and Populations to Collect Data
- Selecting a Sample
- Designing a Project Plan