**Welcome to Math 20-2 2013/14**

Teacher: Mrs. Young

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This course consists of 7 main units:

Unit 2 – Operations on Radicals 9% (Chapter 4)

Unit 3 – Deductive & Inductive Reasoning 9% (Chapter 1)

Unit 4 – Geometry & Congruence 8% (Chapter 2)

Unit 5 – Rates & Proportional Reasoning 8% (Chapter 8)

Unit 6 – Trigonometry 8% (Chapter 3)

Unit 7– Quadratics 10% (Chapters 6 & 7)

Unit 8 – Normal Distribution 8% (Chapter 5)

In addition, the following unit will be integrated into the entire course

Unit 1 – Puzzles & Games (spatial reasoning) 5% 6 classes

**Class awarded mark = 65% of your final grade**

**Final Exam = 35% of your final grade**

Within each unit, your class awarded marks will be based on the following:

* In-Class Assignments & Projects
* Quizzes
* Tests

A rubric or outline will be given ahead of time for all quizzes, tests & projects.

**Course Requirements:**

Text – *Principles of Mathematics 11*

Graphing calculator (such as the TI-83/84 or Nspire)

Pencils, erasers, paper in a binder

**The Big Five – Keys to Success:**

1. Attendance.
2. Pay Attention to Instruction.
3. Write Down Important Information.
4. Do All Your Work.
5. Prepare for Tests.

This year much of your learning will be directed by you and your peers, because *people learn best when they are building on their own experiences and prior knowledge.*

**The main goals of this course are to prepare students to:**

• use mathematics confidently to solve problems

• communicate and reason mathematically

• appreciate and value mathematics

• make connections between mathematics and its applications

• commit themselves to lifelong learning

• become mathematically literate adults, using mathematics to contribute to society.

**Students who have met these goals will:**

• gain understanding and appreciation of the contributions of mathematics as a science, philosophy and art

• exhibit a positive attitude toward mathematics

• engage and persevere in mathematical tasks and projects

• contribute to mathematical discussions

• take risks in performing mathematical tasks

• exhibit curiosity

**Students are expected to:**

***• communicate*** in order to learn and express their understanding

• ***connect*** mathematical ideas to other concepts in mathematics, to everyday experiences and to other disciplines

• demonstrate fluency with ***mental mathematic*** and ***estimation***

• develop and apply new mathematical knowledge through ***problem solving***

• develop mathematical ***reasoning***

• select and use ***technologies as tools*** for learning and for solving problems

• develop ***visualization skills*** to assist in processing information, making connections and solving problems.

While engaged in mathematics, students should build on the following key concepts:

* Change
* Constancy
* Number sense
* Patterns
* Relationships
* Spatial sense
* Uncertainty