Mathematics 8

Mr. C's Math Class

Email: bcao@stlukeshoreline.org

Website: http://pages.stlukeshoreline.org/?page_id=9932

Objective:

- To enjoy mathematics, develop curiosity and begin to appreciate its elegance and power
- To prepare students for Algebra 1 in 9th grade
- To build on previous years' instruction into statistics, geometry, graphing and the number system
- To push students to the limits of their abilities by helping and scaffolding them along the way

Textbook: Glencoe Math - Course 3

Road Map

Unit 1 - What do we need to know about **The Number System** to be ready for the future?

Real Numbers

Unit 2 - What does the equal sign really mean? (Expressions and Equations)

- Equations in One Variable
- Equations in Two Variables

Unit 3 - What is a **Function?**

Functions

Unit 4 - Are these two objects similar or congruent? (**Geometry**)

- Triangles and the Pythagorean Theorem
- Transformations
- Congruence and Similarity
- Volume and Surface Area

Unit 5 - How can **Statistics and Probability** allow us to better understand large data sets?

Scatter Plots and Data Analysis

Class Structure:

- 1. **Warm up** Review concept from yesterday, apply it in an unfamiliar situation, and transfer that knowledge to the new concept for the day
- 2. **Homework Review** We go over homework from the previous day
- 3. **Lesson** New material for the day
- 4. **Homework time** Practice on new material. Due the next class day. Complete as much as possible in class.
- 20 point quiz every Friday
 - Your homework from the week can be used as a reference
- 100 point test at the end of each chapter

IB in Math

- As St. Luke transitions into an IB school, IB summative assessments are going to replace traditional tests and projects.
- In math, these assessments will test students on 4 Criterion:
 - Criterion A: Knowing and Understanding
 - Criterion B: Investigating Patterns
 - o Criterion C: Communication
 - Criterion D: Application in Real Life Situations
- Approaches to Learning We will additionally be working on the following study skill areas:
 - o Communication, social, self management, research, and thinking

Additional Assignments:

- 50 point ALEKS assignments due on the first of the Month
 - ALEKs requirement is 20 topics learned per Month (ALEKS will inform you when you have completed the requirement)
- 25-50 point projects occasionally
- Extra credit opportunities

Supplies:

- Spiral Notebook for homework, note taking, and warm-up problems
- Folder for loose papers, tests, and other handouts
- Pencils and Pens
- Scientific Calculator (TI-30 recommended)
- Computer and internet access at home