

Math 8 Course Outline

Teacher: Ms. Bandali

Room: 20

email: abandali@sd59.bc.ca

Phone: 250-788-2267

Text: MathPower 8

Book # _____

Class Website: www.learnwithmissbandali.weebly.com

Welcome to Math 8! Over the next 5 months, we will explore a variety of concepts in Mathematics. Mathematics 8 is the foundation for Mathematics 9 and consecutive Mathematics courses.

By the end of this course, you will have developed an important foundation of skills, attitudes, knowledge and respect of Mathematics.

The Big Ideas that you need to be able understand are as follows:

1. Numbers can be represented in many forms and reflect different relationships.
2. Computational fluency and flexibility extend to operations with fractions.
3. Discrete linear relationships can be represented in many connected ways and used to identify and make generalizations.
4. The relationship between surface area and volume of 3D objects can be used to describe, measure, and compare spatial relationships.
5. Analyzing data by determining averages is one way to make sense of large data sets and enables us to compare and interpret.

The Big Ideas will be developed by considering the following topics, which will be covered in various degrees of detail over the course.

- perfect squares and cubes
- square and cube roots
- percents less than 1 and greater than 100 (decimal and fractional percents)
- numerical proportional reasoning (rates, ratio, proportions, and percent)
- operations with fractions (addition, subtraction, multiplication, division, and order of operations)
- discrete linear relations (extended to larger numbers, limited to integers)
- expressions- writing and evaluating using substitution
- two-step equations with integer coefficients, constants, and solutions
- surface area and volume of regular solids, including triangular and other right prisms and cylinders
- Pythagorean theorem
- construction, views, and nets of 3D objects
- central tendency
- theoretical probability with two independent events
- financial literacy — best buys

Math 8 Course Outline

Class Expectations:

Attendance→ Regular attendance is **key** to success in Math 8. If, for whatever reason you are away, **YOU** are responsible to get any notes, handouts, and/or information from your contact person, the front folder box, or from the website.

Homework & Assignments→ Although time will be given to complete most assignments in class; some assignments will require time out of the class to finish. When homework is assigned, it is due the next day at the **beginning of the class**. All work to be handed in must be **clearly labeled with name, date, and assignment information**.

Required Materials: Have these with you every day.

- Binder with loose-leaf paper
- Coiled notebook 200 pages (core book)
- Graph paper
- Pens of various colors
- Pencils
- Ruler
- Eraser
- Scientific Calculator
- Well rested and inquisitive mind

Quizzes & Tests

Quizzes and tests will be taken at regular intervals throughout the course. Please be on time as extra time will not be given. If you are away during a test for a legitimate reason you may take the test at a different time (within 2-3 days of your return to school). If you have no reason to be away, you will receive a grade of 0%. Please have all necessary material with you when you are scheduled to write the exam.

Math can be a very rewarding course if you engage in it. You need to be an active member of class, involve yourself in discussions, ask questions to clarify, and extend your learning.

I am available before school from approximately 8:10 - 8:32, most lunch hours and sometimes after school for extra help.

Course Evaluation:

Assignments & Labs	20 %
Quizzes	20 %
Unit Tests (~ 10)	40 %
Final Project	20 %
Total	100%

.....
Math 8:

Parents/Guardians, in order to keep in touch with you, please fill out this portion of the course outline (please print) and have it returned to me by the end of the first week of school. (It will be worth marks!!) Feel free to contact me at lunch, before, or after school at 250-788-2267 or by email at abandali@sd59.bc.ca

Student name: _____

Parent/Guardian name(s): _____

Parent/Guardian phone #: _____

Parent/Guardian email: _____