**Math 30-2 Syllabus: 2013**

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Resources: Absolute Value Publications Foundations of Mathematics 12 Workbook

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| **Outcome** | ***Approximate Time Spent*** | ***Course Weighting*** |
| **Analyzing Puzzles and Games** | **Throughout year** |  |
| **Logic and Reasoning****Logical Reasoning and Set Theory*** “and”, “or”, “not”
* Set theory
* Venn diagrams
 | **Feb 1-8** | **17%** |
| **Probability****Permutations and Combinations*** Fundamental counting principle
* Factorial notation
* Permutations and combinations

**Probability*** Terminology and notation
* Mutually exclusive and independent/dependent events
 | **Feb 11-28****Mar 1-12** | **33%** |
| **Relations and Functions****Rational Expressions and Equations*** Non-permissible values
* Addition, subtraction, multiplication, and division of rational expressions
* Rational equations
* Solving problems

**Polynomial Functions** * Polynomial Functions of degrees 0, 1, 2, 3
* Modelling data

**Exponential and Logarithmic Functions*** Exponential and logarithmic functions
* Graphing

**Applications of Exponents and Logarithms*** Solving equations
* Law of logarithms
* Using logarithms to solve exponential equations
* Applications in finance, growth and decay

**Sinusoidal Functions** * Degrees and radians
* Sinusoidal functions (amplitude, period, horizontal/vertical shifts)
* Modelling data
 | **Mar 13-26****Mar 27-Apr 3****Apr 4-11****Apr 12-May 3****May 6-14** | **50%** |
| **Research Project** | **May 15-21** |  |
| **Review** | **May 22-Jun 18** |  |
| **Diploma Exam** | **Tuesday, June 25 9-11AM** |  |

\*\*\*You are required to have a TI-83 Plus or TI-84 Plus Calculator for this course.

**Communication**

Learning math is a team effort between the teacher, student, and parents. Open communication is best when helping the student achieve success. I will do my best to explain concepts clearly and to provide opportunities to check whether or not you understand before you write your tests. All homework and assignment deadlines are written on the whiteboard in the classroom one week in advance. I am always available for questions during class time and appointments can be made for lunch hour or after school help.

Students must clearly vocalize when there is misunderstanding make use of class time to ask lots of questions. SEEK HELP EARLY AND OFTEN! Be committed to seeking help. It is more effective to get homework done in class, particularly if something does not make sense since I will be available for support. Collaborating with other students in class may be helpful, but all students should gain an individual understanding of the concepts to be prepared for tests. Also, doing all homework at home will result in a lot of extra work, and I will not be able to help you with questions.

Parents can help communicate how students are doing at home and in turn, can learn about how the student is doing at school. They are a great support as they too want to see students succeed.

**In the Classroom**

Be on time and prepared each class. Bring your workbook, your calculator, pencils, and erasers. Fresh batteries for calculators should come from home; the school will not provide new batteries. Coloured pencils or highlighters may be helpful as well. Pen is **NOT** acceptable for homework, assignments, quizzes, or tests. Keep a neat, organized binder with tests and assignments for future study. Make use of all extra space in your workbooks for extra notes.

You need to complete homework. It is your opportunity to practice, learn, and demonstrate what you do and do not understand. In addition to class examples on the board, doing homework, asking questions, and struggling with concepts is how you will learn.

**At home**

 When doing math at home, study in a quiet area for better concentration. Distractions and interruptions make math practice take much longer than it needs to. When preparing for a test, reading over notes is NOT studying. In order to study for math, DO questions with a pencil and paper.

**Homework, assignments, and tests:**

It is expected that all students complete any homework and assignments by the date due. Students will be reminded of the deadlines in class, but it is the responsibility of students to have the work completed. If assignments are incomplete, parents will be notified and students will receive detention until the work is completed.

If you fall behind, you will have a hard time catching up. Because this course is semesterized, you will be learning something new every day. Ask questions as soon as you are stuck or you will fall behind very quickly. Do your work on time.

Before chapter tests, you will have had homework, quizzes, and possibly other assignments. If you did not understand how to do it then, and did not seek help, you cannot expect to get a rewrite on a test. The test is your final opportunity to show what you know AFTER you have put in all the work to learn the material. Essentially, the test IS your rewrite because you have had previous opportunities to find out whether or not you understood. When you are confused, get help right away.

 Please know that I am committed to helping each of you do the very best you possibly can. I need you to make that same commitment to me.

