Mathematics 11 (Foundations)

Course Outline

Teacher: Mrs. M. Gill
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Textbook: Foundations 11 (Nelson)

Welcome to Foundations of Math 11! We have an exciting but challenging semester ahead of us. We will be covering the following content in class:

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| --- |
| **Foundations 11** |
| Properties of Angles & Triangles |
| Non-Right Angled Triangle Trig. |
| Inductive & Deductive Reasoning |
| System of Linear Inequalities  |
| Quadratic Functions  |
| Quadratic Equations |
| Proportional Reasoning  |
| Statistical Reasoning |

Expectations

Mathematics is only mastered by ***doing***! The keys to success in this course include:

* Doing all regular assigned homework
* Attending class every day (presence and punctuality, please)
* Attending FLEX tutorials when extra support is needed
* Taking quality notes
* Using class time wisely and staying off your electronics.

Evaluation

Unit Tests 60%

Quizzes/Assignments 20%

Midterm & Final Exam 20%

Materials

* Scientific calculator (sin, cos, tan, square roots, exponents, etc.)
* 3 ring binder with plain, lined, and graph paper
* Pencils, erasers, pen, and ruler

Extra help

Please don’t fall behind in this course. For additional help, you can come see me before/after school or during any of the flex blocks.

Good luck this semester!

**Who is it for?**There are 3 streams in Math 11: Pre-Calculus, Foundations, and Apprenticeship and Workplace. You’re in Pre-Calculus if you want anything to do with the science or commerce programs in post-secondary school. Some schools accept Foundations for programs like nursing, social sciences, humanities, and fine arts. For trades programs or direct entry into the work force you should choose Apprenticeship and Workplace. That said, it also depends on your math skills and YOU! If you don’t know if you’re in the right course, seek your counsellor.

**Course Content**:

|  |  |  |
| --- | --- | --- |
| **Pre-Calculus 11** | **Foundations 11** | **A & W 11** |
| Sequences and Series | Properties of Angles & Triangles | Ratio, Rate & Percents |
| Radical Expressions & Equations | Non-Right Angled Triangle Trig. | Trigonometry |
| Quadratic Equations | Inductive & Deductive Reasoning | Slope |
| Quadratic Functions | System of Linear Inequalities  | Representing Data Graphically |
| Systems of Equations & Inequalities | Quadratic Functions  | Surface Area & Volume |
| Trigonometry | Quadratic Equations | Scale & Scale Drawings |
| Rational Expressions & Equations | Proportional Reasoning  | Financial Services Industry |
| Absolute Value & Reciprocal Fxns | Statistical Reasoning | Personal Money Management |

**Letter Grades** are based on provincial standard

 A 86 - 100% Excellent

 B 73 - 85% Very Good

 C+ 67 - 72% Good

 C 60 - 66% Satisfactory

 C- 50 - 59% Below Average

 I Below 50% Course objectives are not being met

**Work Habits are determined by the following rubric:**

|  |  |  |  |
| --- | --- | --- | --- |
| Criteria | **N** | **S** | **G** |
| **Punctuality** | Regularly arrives late or just on time. | Arrives, has textbook, notebook, equipment on desk | Arrives, has textbook and notebook open, ready to start |
| **Works Independently** | Distracts others; talks to others instead of working; teacher must remind student about getting to work. | Works quietly on assignment, asking questions when necessary | Remains on task without reminders; works quietly and efficiently using notes and textbooks |
| **Initiative** | Has difficulty starting to work; doesn't ask for help; doesn't get caught up after absence; rarely participates. | Participates when asked; begins to work when assignment given; works hard most of the time | Volunteers to answer and ask questions; will help others; know what needs to be done and does it |
| **Homework and Assignments** | Assignments and homework frequently incomplete; answers not checked | Homework and assignments usually complete but answers are not always checked and corrected | Homework and assignments complete and answers have been checked and corrections are made |
| **Organization** | Rarely brings materials required for class. Has difficulty finding materials or items in binder quickly. | Notebook is fairly complete but needs some organization of pages etc.; uses the agenda most of the time | Notebook is organized and complete; uses the agenda to record all homework, assignments and important dates |
| **Teamwork** | Regularly interrupts, distracts, or disrupts others; difficult to work with as a team member | Cooperative, participates and follows the lead of others | Demonstrates cooperation, respect, and leadership |