IGCSE Mathematics Grade 10 tier III

Teacher: Mr. Jason Howes

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**Text:** IGCSE Cambridge International Mathematics, Haese and Harris Publications, 2009

**Materials:** Required daily: school issued IPAD, textbook, pencils, eraser, notebook, mathematics notebook, calculator. Each student should have his/her own graphics calculator.

**Note**: The IGCSE tests now allow graphing calculators on two of three sections of the exam. (Hence, one section is non-calculator). This was done to better align with the IB curriculum. A TI-83or TI-84 will be taught in lessons.

**Expectations:** As this is the accelerated section we offer for 10th grade mathematics, we will cover all of the IGCSE syllabus *PLUS* several extra topics to prepare you for HL mathematics at the IB level. The course is challenging and will move at a very fast pace. Therefore, it is important that you have excellent attendance and study habits. I expect you to be in class on time and prepared every day with your book, supplies and completed homework assignment. I expect you to actively participate in class and show respect to your teacher and fellow classmates. If you have an excused absence it is your responsibility to learn the material that you missed. This includes all school trips such as MUN, NECIS, etc . All homework assignments will be posted on the whiteboard daily, and posted to the homework calendar through edline. Homework/tests/quizzes will also be posted to edline.

Each student is expected to be in his or her seat ready to work when class begins. NO food, drinks, gum, or listening devices are allowed in the classroom. You may bring water to drink.

**Cheating is unacceptable under all circumstances**. If you are involved with any cheating or copying of one's work and representing it as your own or giving your work to another you will receive a **zero** for that piece of work.

**Grading System**: Every student can earn an A in this class if you work hard, diligently complete the assignments each day and keep up with your studying of the material.

**Assessment / Grading:**

Interim Summative Assessments (ISA) 40%

* ISAs may include homework, notebook tests,

short/pop quizzes, investigations, and other

small assignments

Significant Summative Assessments (SSA) 60%

* SSAs will generally consist of longer quizzes, tests

or projects over the course of a chapter or unit

Semester grades

 Assessments throughout the semester 80 %

 Winter Exam/Summer Exam 20 %

**Homework:** Homework will be assigned every class period. Mathematics is not a spectator sport! The only way to learn is to *practice*. Begin each homework assignment by writing down the date, what was assigned that day, and the homework assignment number (i.e. HW #14). Each problem is to be copied into your notebook. If you cannot solve a problem from the homework be sure to get help! -from another student, a tutor, a parent or of course from me!

**Tests and Quizzes:** There will be a test over each unit. The units include approximately two to four weeks worth of material. Quizzes will be given about once a week to emphasize the importance of studying and keeping up with the new material. Items from class notes and homework problems are also potential quiz questions. Occasionally I will give pop quizzes and/or collect their mathematics notebook. This is done to ensure everyone is doing ALL of their homework and to encourage neatness and organization of their notebooks.

**Course Outline**

Topics will include material from the IGCSE syllabus and extensions to help prepare the students for the IB mathematics courses:

\*Topics in Arithmetic/Mensuration

\*Transformations/Quadratic Functions

\*Exponential/Logarithmic Functions

\*Further Functions and inequalities

\*Two Variable Statistics and Probability

\*Circle Geometry and Further Trigonometry

\*Vectors and Sequences

\*Variation and power modeling