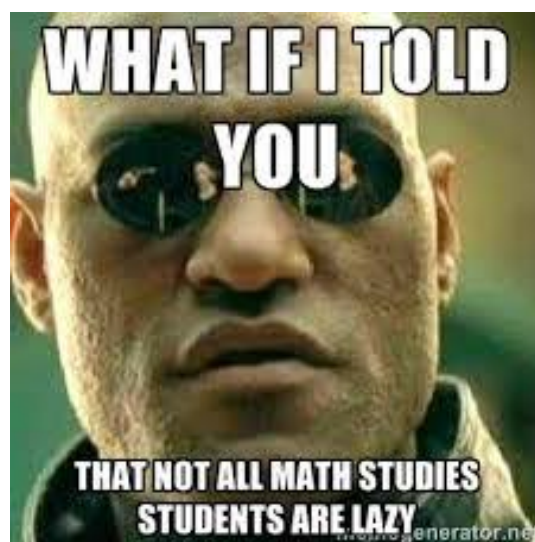


IB Math Studies Syllabus

Course Overview

IB Math Studies is a Standard Level International Baccalaureate Course, satisfying the math requirements of the IB diploma. Students are required to take the IB Math Studies SL exam in May, and must submit an “internal project” to the IBO for grading. The exam will count 80% of their overall IB score, and the internal project will count 20%. Some universities will also give college credit for high scores on the IB exam.



Paper 1:

Mon. May 13, PM

Paper 2:

Tues. May 14, AM

Tutorials

Wednesday
after school

Appointments can be
made for other days
and times.

Test Day will be
on Thursdays but
there may be tests
that fall on a
different day. If so,
plenty of notice
will be given.

Course Topics Course Topics Course Topics

Numbers and Algebra | Descriptive Statistics | Logic, Sets and Probability | Statistical Application | Geometry and Trigonometry | Mathematical Models | Introduction to Calculus

You can find a more detailed "Syllabus Content" on my website

Contact Information



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"Education is the most powerful weapon which you can use to change the world"
----- Nelson Mandela



Interactive Notebook (INB)

We will use and update our INBs daily. It is expected that you will keep your table of contents up-to-date and notebook organized. Your notebooks will be turned in on test day to be graded. The unit tab will show every page that is expected to be there and in what order. If you miss a day of school you are still expected to get the notes and put the page(s) together. Part of your INB grade is neatness so please treat your notebook with care. You are expected to write down the notes and show work as necessary but you have the freedom to get as creative as you would like. When used properly this is a great resource for studying at the end of the year.

Stay up to date with my website:

<https://sites.google.com/view/mrsyountswebsite/>

Internal Assessment (IA)

As a part of this course you are expected to complete an Internal Assessment (IA). We will discuss the project in much more detail later in the year. You will be required to come up with a question that you will then use math to answer. You will need data to help answer your question so the sooner you think of an idea and begin gathering data, the easier the project will be!

This is an important project that should be taken seriously. A rubric and other materials will be provided to help you get the most points possible. There will be multiple check points throughout the year which will count towards your grade. Some of these checks will be simple homework grades while others will count as test grades. When we discuss the project in more detail, you will be given a breakdown of when parts are due and what they count for. Your final grade on your paper will count as half of your final exam for this class - so take it seriously!!

Grade Distribution

Students will receive an overall grade in this class based on the following scale:

Tests/Projects.....	60%
Quizzes	20%
<u>Homework/Classwork</u>	<u>20%</u>
Total	100%

Other Important Policies

IB Math Studies Supplies

We will be utilizing an interactive notebook (INB) this year. The first notebook will be provided, but subsequent composition notebooks will need to be purchased as needed. All supplies needed for the INB will be provided, but if students want their own glue stick, tape, scissors and colored pencils they may bring their own. A folder to hold homework is suggested. Please also have loose leaf notebook paper and a pencil each day for class. A calculator is also suggested but not required.

Homework Policy

Students will be expected to complete homework each and every night that is assigned. At the beginning of each unit students will receive a packet containing all their homework. All homework assignments will be due the day of the test and will be graded for effort and completeness. A check sheet will also be posted on the website and should be attached to the homework packet when turned in.

Make-Up Work Policy

Students who are present in class will be expected to turn in all assignments on time. In the case of an absence from class, students will be allowed three (3) school days to make-up and turn in missed assignments. Any quiz missed due to an absence must be made up before the current unit test. Any test missed due to an absence must be made up before the next unit test.

Restroom Policy

Students will be allowed to leave class one-by-one for the restroom during individual practice time only and at the teacher's discretion. Student will be given a hall pass and expected to return to class in a timely manner. Students may NOT leave class during tests and/or quizzes.

Food and Drink Policy

Students will not be allowed to have food or drink in the classroom except for bottled water.

Tardy Policy

Students will be considered tardy if they are not completely inside the classroom at the end of the bell. Students who receive one or more tardies will be issued the following consequences:

- 1st offense - Warning
- 2nd offense - Warning and call home
- 3rd offense - Call home with after-school detention (4:15-5:00)
- 4th offense - Administrative Referral

Late Policy

First day late..... 15 points off
Second day late..... 10 more points off
Third subsequent days late..... 10 more points off
The assignment in question will go down to a zero after 10 days.

Electronic Policy

Cell phones or any other electronics are not to be used during class unless given permission by the teacher.

Grading Scale

North Carolina has adopted the 10 point scale which is as follows:

- A 90 - 100
- B 80 - 89
- C 70 - 79
- D 60 - 69
- F below a 60





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Expectations

AP and IB classes are college level classes in a high school setting; they should not be mistaken for high school level classes. Students choosing to take AP/IB classes are looking for a challenge that they are not necessarily getting from Honors level courses. The expectations are higher and the work load is greater. Additionally, students are expected to complete all components of assessment for AP and IB evaluation, including IB Internal and External Assessments, IB exams, and AP exams. Students who do not meet this requirement will have to pay a portion of the examination fee: \$15 for AP exams and \$45 for IB exams. Please note that oversleeping, forgetting about an exam, getting in traffic delays, and feeling ill without a doctor's note are not accepted reasons for missing an exam or taking a late exam.

A student can expect their homework to take an average of 30 minutes to 1 hour, per class, to complete. Some classes have the regular homework of studying the material discussed in class and the time required for such homework will depend on the student. Generally, AP and IB students should expect more: more learning, more work, more writing, more challenges, and more from themselves.

Academic Honesty

Instances of academic malpractice will be taken very seriously. Malpractice includes the following:

- Plagiarism
- Collusion
- Duplication of work
- Any other behavior that gains an unfair advantage for a candidate or that affects the results of another candidate

If a teacher discovers evidence of student malpractice, they will first discuss the issue with the student. If evidence of malpractice is found, the following will occur:

First Offense:

- The parent will be contacted, and a formal administrative write-up will occur. This write-up will serve as warning and will remain on file as documentation if any other instances of malpractice occur.
- The teacher, parent, and student will discuss the seriousness of malpractice and the resulting effect on the class grade. If the student is an IB student (either in Grimsley's Diploma Programme or as a Grimsley Pre-IB student), the IB Coordinator will be notified and the malpractice will be placed in the student's file.
- The student earns a 0 class grade for the assignment.

Second Offense:

- The parent will be contacted, and a formal administrative write-up will occur. This write-up will result in disciplinary action.
- The teacher will notify the IB Coordinator, if applicable. The IB Coordinator will contact the student and his/her parents and decide if the student will be allowed to continue in the IB Diploma Programme at Grimsley High School.



More about the IB Math Studies Program

The IB DP mathematical studies standard level (SL) course focuses on important interconnected mathematical topics. The syllabus focuses on: placing more emphasis on student understanding of fundamental concepts than on symbolic manipulation and complex manipulative skills; giving greater emphasis to developing students' mathematical reasoning rather than performing routine operations; solving mathematical problems embedded in a wide range of contexts; using the calculator effectively. There is an emphasis on applications of mathematics and statistical techniques. It is designed to offer students with varied mathematical backgrounds and abilities the opportunity to learn important concepts and techniques and to gain an understanding of a wide variety of mathematical topics, preparing them to solve problems in a variety of settings, develop more sophisticated mathematical reasoning and enhance their critical thinking.