IB Math SL SYLLABUS
2022-2023
Mr. Terry Letterman

CONTACT INFORMATION

Teacher Email: **Terry.Letterman@mnps.org**
Teacher Web address: https://www.learningwithletterman.com
Room #: **206**
Tutoring hours: 3:15-4:15, Days TBD

Course Overview

IB Math SL is a 2-year course that is part of the IB Diploma Program. During Year 1 we will be covering 4 math topics: Algebra, Functions and Equations, Circular Functions/Trigonometry, and Statistics/Probability. During Year 2 we will cover Vectors and Calculus. During Year 2 you will also be writing a paper on an exploration of a math topic of your choice.

If you are part of the Diploma Program, at the end of Year 2 you will also sit for two end-of-course exams (External Assessments). The grade for IB (not your transcript grade) will be calculated with the following weights: Internal Assessment (20%), External Assessment Part 1 (40%), and External Assessment Part 2 (40%).

Course Objectives

By the end of the school year you will be able to demonstrate a good understanding of the principles, processes, and vocabulary related to the following areas:

1. Math fundamentals.
2. Functions and equations.
3. Sequences and series.
4. Exponential and logarithmic functions.
5. Trigonometric functions and equations.
6. Triangle trigonometry.
7. Statistics.
8. Probability.
9. Probability Distributions.

In additions you will be able to demonstrate your ability to:

1. Read, interpret, and solve problems using appropriate mathematical terms.
2. Organize and represent information in tabular, graphical, and diagrammatic forms.
3. Know and use appropriate notations and terminology.
4. Formulate a mathematical argument and communicate it clearly.
5. Select and use appropriate mathematical strategies and techniques.
6. Demonstrate an understanding of both the significance and the reasonableness of results.
7. Recognize patterns and structures in a variety of situations and make generalizations.

8. Recognize and demonstrate an understanding of the practical applications of mathematics.
9. Use appropriate technological devices as mathematical tools.
10. Demonstrate an understanding and the appropriate use of mathematical modeling.

CLASS RULES AND CONSEQUENCES:

R3: Respect, Responsibility, Readiness

In order to ensure a positive learning environment for all members of this classroom community, we will observe three general rules in this classroom:

1. We will show **RESPECT** for people, property, and time.

2. We will assume **RESPONSIBILITY** for actions and attitudes.

3. We will demonstrate **READINESS** by coming to class prepared.

REQUIRED MATERIALS

The student is expected to bring the following materials to class each day:
Dedicated Mathematics Folder/Binder with loose-leaf paper
Graph Paper
Colored pencils
Pencils
School Laptop(fully charged)

If the student would like a calculator for home use, the TI nSpire CX2 is recommended.

CELL PHONES will not be permitted for use as an electronic device.

GRADING SCALE

Nine Weeks Category Percentages
A : 90% –100%
B : 80% – 89.9%
C : 70% – 79.9%
D : 60% – 69.9%
F : 50% – 59.9%

ASSESSMENT/HOMEWORK POLICY

Students will earn their academic grade through mastery of concepts. Only tests and quizzes are considered summative assessments; however, students are encouraged to complete teacher's recommended activities outside the classroom.

Makeup Work: if the student has an excused absence, **it is the student's responsibility to ask for the make-up work**. In general, all class materials including PowerPoint, videos, notes, and class information will be posted to the teachers website in advance of the class. Thus an absent student can complete the work independently or at least be aware of what was covered during their absence. During assessments, students must follow instructions. Pencil is required for all graded work.

Retakes: A student will only be allowed to retake an assessment if they have completed all work(formative and summative). If a student has not completed their work, a retake will not be approved until they are current.

All work must be completed in a legible fashion. If grader cannot follow your work, work will be returned ungraded.

RECOMMENDATIONS

- Use online links and book, both for extra examples and for quiz/test practice.
- Read the section in the book and notes the night before it will be discussed
- Pay attention in class and take good notes!
- Study - BY DOING...not LOOKING, before taking any assessment.
- Make arrangements for extra help: tutoring is provided by the teacher after school.
- Rework assessment problems.
- Use available class time to work on assignment or review notes.
- Make an honest effort to learn from mistakes.
- Work with a study buddy.

DISCIPLINE POLICY

Students are expected to follow the MNPS Code of Student Conduct at all times on campus and at school related events. Should a student violate these rules or expectations, the following steps will generally be taken upon each successive infraction:

1. Verbal Warning
2. Student-Teacher conference
3. Parent-Teacher conference
4. Office referral

Please keep in mind that these steps may be skipped depending on the severity of the infraction.

20/20 and hall passes

Parent/Student Agreement

Mr. Letterman

Syllabus 2022-2023

This signed sheet must be turned in to Mr. Letterman by the end of the first week of school. My child and I have read and understood the contents of Mr. Letterman's course syllabus regarding classroom rules, expectations, attendance/absences, assignments and grading. We further acknowledge that cell phones are not to be used in class for any reason and are to remain silenced and secured in the students backpack.

Student's name (printed)_____

Period: _____

Date: _____

Student's signature: _____

Parent's name (printed)_____

Parent/Guardian signature: _____

Parent/Guardian phone number: _____

Parent/Guardian email:_____

What is the best method for me to contact you and time? (Circle one) Phone / E Mail

Time: AM PM ANYTIME

Additional comments teacher should be aware of: