

IB Year 1 Mathematics: Applications & Interpretation

Mrs. Beatty

2021- 2022

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The following is your syllabus for the school year.

Course Description:

The Mathematics: Applications & Interpretation course is available at Standard Level (SL) only. It caters to students with varied backgrounds and abilities. This is not an Honors course. However, students taking this course need to be already equipped with fundamental skills and a rudimentary knowledge of basic algebraic processes. The course consists of the study of five topics. Students must study all the sub-topics contained within each of the topics in the syllabus over the 2 year course. It has challenging content with a technology emphasis and moves at a brisk pace to prepare students for college.

Objectives:

1. Topic 1: Number and algebra
 2. Topic 2: Functions
 3. Topic 3: Geometry & Trigonometry
 4. Topic 4: *Statistics & probability
 5. Topic 5: *Calculus
- * Topics covered in Year2

Student AIMS (skills you will learn & develop): *Analyzing, Communicating, Reasoning, Interpreting, Application & Synthesis*

General Requirements/Expectations: *Be Safe, Be Respectful, Be Responsible, Be a Graduate*

- Be on time and come prepared for class. Have something to write with and all assigned work completed before class.
- You are expected to be an active participant in all aspects of class. COME READY TO LEARN! **Do not** keep someone else from learning.
- Be respectful towards others AND yourself. **REMEMBER: IB Learner Profile** ☺
- Please take note of the Classroom Expectations and Cell Phone policies hanging up in the room.

Grading: 90% - 100% (A); 80% - 89% (B); 70% - 79% (C); 60% - 69% (D); anything below 60% is not a passable grade. To configure grades, I will add up all the points for the semester and divide the total possible and get a percentage.

GOAL: to accumulate as many points as you can!!

Hellgate scores are kept separate by each instructor, and will utilize the skills and questions from the following:

- Unit Tests - (100 pts each) This is where you need to show me what you have learned. I need to know what skills you have mastered.
- Quizzes - (20 pts each) I will need to check for understanding before we get to a test so expect at least one quiz in each unit/chapter. Quizzes are expected to be completed in one class period through Google Classroom.
- Check Your Understanding practice - (5 pts each) Assigned problems will be posted on Monday and are expected to be turned in on Friday by midnight through Google Classroom. Hellgate has Missing Work Deadlines. If not turned in by then, it will become a zero.
- Projects - (20 points) There will be a rubric provided with any project. I try to do one project per quarter.
- Final - (100 pts) There will be a semester final at the end of semester 1 and semester 2. The final will be worth the same as a test.

Retakes:

- You will be allowed to retake **only one test** during the course of the semester so choose wisely. You may do that retake anytime during the semester up until finals week. Your first score will be replaced with the retake score, whether it is better or worse.
- You will be allowed to retake quizzes in Google Classroom after everyone has completed it. You will be able to edit your responses and resubmit. The deadline for resubmissions will also follow the Missing Work Deadlines.

Please come to me with any questions or concerns. My door is open from 8:30-8:50am daily. You are welcome during Office hours as well each Thursday 8:55-10:25 am.

Required

Materials:

- Calculators will be available for use during class but they may not be taken outside of the classroom or taken home. If you wish to purchase your own calculator, the TI-84 is the recommended one. I recommend you purchase your own calculator for this course because you will need it for many assignments.
- Textbook - We will have a textbook for this course.
- Notebook and writing utensils (preferably pencil).