Summer 2017

Dear Incoming Student,

Congratulations on accepting the challenge of taking International Baccalaureate Mathematics Standard Level (IB Math SL). I have prepared this packet to give you additional information about the course and to help you prepare to be successful in IB Math SL.

IB Math SL is a rigorous course that covers topics in Algebra, Functions, Trigonometry, Vectors, Statistics and Probability, and Calculus. In May, you can take an IB Math SL exam certifying that you have mastered the content of a college-level curriculum. Depending on where you go to school, you may be granted college credit based on the score you receive on the exam. This year we will be concentrating on Statistics and Probability, Vectors, Trigonometry, and Calculus. You will also be writing an Exploration (see other handout) that will be a part of your final exam grade. If you are taking the IB Exam in May, it will be a part of your overall score on that exam as well.

IB Math SL is a demanding course. You should be proud of the work you have done to prepare yourself thus far. My goal is to help you grow as a mathematician as much as possible over the next year, but I can only be a guide. It is up to you to put forth the consistent effort necessary to succeed in this course. Note: If you struggled in Precalculus, this course will be extremely difficult for you. If you have trouble with this packet you might want to see your counselor about a schedule change.

I have developed a summer assignment to help you refresh some skills necessary for success in this course. Please complete the entire packet, showing all of your work carefully, **without use of a calculator wherever possible**. Many of our exams this year will have a non-calculator component in order to prepare for that aspect of the exam in May. Everything in this packet should be review for you. If you need help with any of the topics, check out online resources like Khan Academy. Be sure to use the attached formula sheet as well. Whenever giving approximate answers, use 3 significant figures. IB uses significant figures not a specified number of decimal places. I also included a resource on significant figures as well as some notation and command terms that you should start becoming familiar with.

**Your summer assignment is due on the first day of class. You must show all work to receive credit.** Please make sure that you have mastered the material in this packet to ensure your success. All the material in this packet is content that will be on the IB Exam in May as well as on exams periodically throughout the year. Because we only have a year and have new topics to learn, we won’t go over this material much more throughout the year. Please also look over the packet concerning the exploration and be thinking about what topic you might like to do. We will talk more about that the first week of school and will choose a topic before Fall Break. The paper will be due the late January/early February.

I look forward to getting to know you and working with you next year. Please feel free to email me at any time with questions. Check my website for solutions later this summer. Have a relaxing, enjoyable summer. I look forward to studying mathematics with you next year!

Sincerely,

Mrs. Kimberly Haley

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