IB Mathematical Studies Syllabus

The IB Math Studies Syllabus consists of the study of eight topics. All topics are compulsory, as are all the sub-topics of each topic. There are also several topics listed as presumed knowledge which students are required to be familiar with. In addition, students are required to complete a project during the course. The IB guidelines state that approximately 130 hours of class teaching be available to teach the course content, with another 20 hours of class time made available for students to work on the coursework project.

The following Syllabus Overview gives the suggested class teaching times as presented in this course for covering the material in each section. For the purposes of this text, certain units from the IB syllabus have been split or combined to produce a slightly different order. Project work is fully integrated into the course, rather than appearing as a separate topic.

The teaching sequence of the units is flexible to a certain degree, and teachers wishing to change the order can find relevant information in the unit overviews given in the text. However, I would suggest that sub-topics within a unit be taught in the order suggested, as the material provided relies on knowledge gained from previous lessons. One factor of consequence here is that the quizzes, used as ongoing revision throughout the course, have been designed to match the sequence presented below and would therefore need to be modified.

Some of the material listed as presumed knowledge may be omitted from class teaching time at the discretion of the teacher, with perhaps this material given in the form of homework assignments.

Towards the end of the course it would be advisable to allow students time to practice past examination papers and to see how examination questions are marked by referring to the official mark schemes. These documents are available for download from the IBO by accessing their online curriculum centre. A password for the site should be available from the school's IB coordinator.

Syllabus Overview

Unit	**Teaching hours**
1. Number	12
2. Algebra	20
3. Sets, Logic & Probability	12
4. Geometry	10
5. Functions	15
6. Trigonometry	11
7. Statistics	10
8. Differential Calculus	9
Review Quizzes	16
End of Unit Tests + Follow up Lesson	8+8
Total Class Hours	**131**
Coursework	
Follow up lessons to coursework style lessons	11
Coursework lessons	8
Total Class Hours	**19**
Total class hours	**150**