Takapuna Grammar School
Level 1 Mathematics
Course Outline 2023

Takapuna Grammar School

Recommended Achievement Levels
Success in the 10MAT course; ideally achieving with at least merit in the Algebra and Graphs topics.

Description / Aims of the Course / Course Content
The aim of the course is to introduce and develop a broad range of mathematical and statistical skills, concepts and understandings of the Level 6 Mathematics Curriculum in the areas of number strategies and knowledge, patterns and relationships, equations and expressions, shape and transformations.

This course will cover four of the NCEA Level 1 Mathematics Achievement standards. It is possible to obtain a maximum of 19 credits. It contains six subject areas and uses a variety of Walker Maths Level 1 workbooks for extra practice and homework. By the end of this course, students will have developed sufficient knowledge and skills to solve problems by applying algebraic, graphical and trigonometric methods.

Methods of Assessment

Standard		Title Type		Credits
AS 91026	1.1	Apply numeric reasoning in solving problems	Internal	4
AS 91027	1.2	Apply algebraic procedures in solving problems	External	4
AS 91028	1.3	Investigate relationships between tables, equations and graphs	External	4
AS 91029	1.4	Apply linear algebra in solving problems	Internal	3
AS 91031	1.6	Apply geometric reasoning in solving problems	External	4

All internally assessed achievement standards will follow the school and NCEA policies and procedures on lateness, misconduct, extensions, missed / delayed assessments and appeals. Exact assessment dates will be given to students at the beginning of the teaching of each topic. An assessment will not automatically be open for reassessment if a student is absent. If an internal assessment is missed, there must be valid medical evidence to say why that student was absent.

There will also be a series of common tests throughout the year. Students will be informed prior to the test date. There will be a common practice external, based on past examination papers, on every topic. These results are recorded for both school and NCEA purposes. There will also be a 2.5 hour mock examination in September, during weeks 8 and 9 of Term 3. These assessments are important as practice for the November examination and provide evidence for the award of school subject prizes as well as derived grades when needed.

Student Work

Every student must use 2 1J8 Quad Exercise Books. One is to write down theory notes. The other is for exercises. It is expected that the student will bring all appropriate mathematical equipment for each lesson, each day. Teachers will instruct students that all necessary working must be shown.

If a student is absent from class on any given day, it is the student's responsibility to catch up on missed work. This means that all students must ensure that they copy out any missed theory notes, collect missed hand-outs and catch up on any work set during their absence.

It is recommended that students bring a graphic calculator to every lesson as students without these will be at a significant disadvantage. The Casio model fx-9750GII is recommended and teachers will be able to demonstrate to and instruct students in the use of this model. These calculators can be purchased through the stationery shop. Students must provide their own calculators for all assessments.

Homework

Every teacher will set homework on the google classroom. Parents are encouraged to support their child to ensure that everything has been completed on time, please ask to see your child's classroom regularly to see if they are doing the work. The homework can be a project, investigation activity, preparation for an assessment, pages from a homework book or the completion of an exercise from class. It is the responsibility of each student to ensure that all work set, is completed and marked. We encourage students who are struggling with their homework or maths tasks to seek additional support at Maths Coaching each Tuesday. Teachers are available at lunch and after school in RN46 to provide support to any students who have questions about their homework or course material.

Every Level 1 Mathematics student is expected to buy Walker Maths Level 1 workbooks and D & D revision books. These workbooks can be purchased through the stationery shop. The four D & D revision books will not be available until term three. These are a useful support for examination revision and students are advised to buy them.

General

If you have any concerns regarding your child's progress in Mathematics, please contact the classroom teacher.



