**BGCSE Mathematics: Paper 1 and Paper 2 (Core Level)**

**The Tutoring Station**

Instructor: Mr. Sachin Lewis

**Supplementary Materials:**

~ Scientific Calculator

**Course Requirements:**

**~ Complete all assignments** in a timely fashion

~ Participate in live ZOOM conferences

The course is split into two parts, each covering a variety of topics. There will be two tests and a ZOOM session before each test to prepare students. This course mainly focuses on concepts found in BGCSE Paper 1 with some overlap of Paper 2. Therefore, the final test will be a past BGCSE Paper 1.

**Topics covered: Part 1 Test 1 35%**

1. Types of numbers
2. Set notation and language
3. Square, square root, cube and cube root
4. Directed numbers
5. Common fractions, decimal fractions and percentages.
6. Comparing quantities
7. Scientific notation
8. The four rules (order of operations)
9. Estimation
10. Limits of accuracy
11. Ratio, Proportion and rate
12. Percentages

**Topics covered: Part 1 Test 2 25%**

1. Time
2. Money, personal and household finance
3. Graphs in practical situations
4. Graphs of functions
5. Equations of straight line graphs
6. Symmetry

**BGCSE PAPER 1 40%**