

## **THE FOUR ELEMENTS OF CONSTRUCT IN MATH AND THEIR TOPICS**

### **NUMBERS**

1. Number bases
2. Working with integers
3. Fractions, decimals and percentages
4. Rectangular Cartesian coordinates in 2 Dimension
5. Numerical concept 1 (indices)
6. Numerical concept 2 (surds)

### **GEOMETRY AND MEASURES**

1. Geometric construction skills
2. Bearings
3. Reflection
4. General and angle properties of geometric figures
5. Algebra 1
6. Business arithmetic
7. Time and timetables
8. Similarities and enlargement
9. Circle and Circle properties
10. Rotation
11. Length and area properties of Two – dimensional figures
12. Nets, areas and volumes of solids
13. Trigonometry 1 and trigonometry 2
14. Vectors
15. Business mathematics
16. Matrix transformations
17. Lines and planes in Three dimensions

### **PATTERNS AND ALGEBRA**

1. Sequence and patterns
2. Equations of lines
3. Mappings and relations
4. Vectors and translation
5. Inequalities and regions
6. Algebra 2
7. Equations of a straight line
8. Ratios and proportion
9. Simultaneous equations
10. Quadratic equations
11. Composite functions
12. Equations and inequalities
13. Linear programming
14. Loci

### **DATA AND PROBABILITY**

1. Data collection and presentation
2. Graphs(travel graphs )
3. Set theory
4. Data collection/ Display
5. Matrices
6. Probability