

TAMIL NADU STATE BOARD (TNSC)
SSLC (CLASS 10) SYLLABUS

MATHS

1	Relations and Functions
1.1	Introduction
1.2	Ordered Pair
1.3	Cartesian Product
1.4	Relations
1.5	Functions
1.6	Representation of Functions
1.7	Types of functions
1.8	Special cases of Functions
1.9	Composition of Functions
1.10	Identifying the graphs of Linear, Quadratic, Cubic and Reciprocal functions

2	Numbers and Sequences
2.1	Introduction
2.2	Euclid's Division Lemma
2.3	Euclid's Division Algorithm
2.4	Fundamental Theorem of Arithmetic
2.5	Modular Arithmetic
2.6	Sequences
2.7	Arithmetic Progression
2.8	Series
2.9	Geometric Progression
2.10	Sum to n terms of a Geometric Progression
2.11	Special Series

3	Algebra
3.1	Introduction

3.2	Simultaneous Linear Equations in three variables
3.3	GCD and LCM of Polynomials
3.4	Rational expressions
3.5	Square Root of Polynomials
3.6	Quadratic Equations
3.7	Quadratic Graphs
3.8	Matrices

4	Geometry
4.1	Introduction
4.2	Similarity
4.3	Thales Theorem and Angle Bisector Theorem
4.4	Pythagoras Theorem
4.5	Circles and Tangents
4.6	Concurrency Theorems

5	Coordinate Geometry
5.1	Introduction
5.2	Area of a Triangle
5.3	Area of a Quadrilateral
5.4	Inclination of a Line
5.5	Straight Line
5.6	General Form of a Straight Line

6	Trigonometry
6.1	Introduction
6.2	Trigonometric Identities
6.3	Heights and Distances

7	Mensuration
7.1	Introduction

7.2	Surface Area
7.3	Volume
7.4	Volume and Surface Area of Combined Solids
7.5	Conversion of Solids from one shape to another with no change in Volume

8	Statistics and Probability
8.1	Introduction
8.2	Measures of Dispersion
8.3	Coefficient of Variation
8.4	Probability
8.5	Algebra of Events
8.6	Addition Theorem of Probability