

YEAR 10

ADDITIONAL MATHEMATICS



SRI KDU
International
School
SUBANG JAYA

PROGRAMME OF STUDY - TERM 1

NUMBER

- Upper bound & Lower bound and Speed time graph – Upper and lower bounds for calculations, speed time graph, curved graphs

ALGEBRA

- Proportion– Direct & Inverse proportion – Direct proportion, Inverse proportion, finding unknown quantities
- Functions– Function notation, inverse functions, composite functions
- Straight line graphs & Solving inequalities – $y=mx +c$, solving equations, parallel, perpendicular lines
- Number sequence – Patterns in number sequences, nth term of a sequence, general rules from patterns, further sequence
- Differentiation– Gradient of a curve, turning points

GEOMETRY & MEASURE

- Trigonometry –trigonometric ratios, problems in three dimensions, sine and cosine rule, area of triangle, sin, cos and tangent of any angle.
- Angle properties – Angles in a circle, cyclic quadrilaterals, alternate segment theorem
- Vectors – using vectors, magnitude of a vector

STATISTICS & PROBABILITY

- Probability – Tree diagrams, conditional probability