

YEAR 10

ADDITIONAL MATHEMATICS



SRI KDU
International
School
SUBANG JAYA

PROGRAMME OF STUDY - TERM 2

NUMBER

- Upper bound & Lower bound
- Exponential growth and decay

ALGEBRA

- Graph of functions – Turning points on a quadratic graph, more graphs, exponential graphs, estimating graphs
- Linear programming – graphical inequalities, more than one inequality, linear programming

GEOMETRY & MEASURE

- Area and volume of similar shapes – congruent triangles, area of similar triangles, area and volumes of similar shapes.
- Vectors – Using vectors, the magnitude of a vector

ONGOING OBJECTIVES

- Students able to give upper and lower bounds for the results of calculations with data given to a specified accuracy.
- Students able to recognise, sketch and interpret linear, quadratic, cubic, reciprocal and exponential graphs.
- Students able to recognise turning points and asymptotes on a graph and estimate the gradient of a curve by drawing a tangent.
- Students able to represent inequalities graphically and use graphical representations to solve simple linear programming problems.
- Students able to use the relationship between the area, volume and surface area of similar figures.
- Students able to use the congruence criteria for triangles.
- Students able to calculate the magnitude of a vector, represent vectors by line segments, use sums and difference to express one vector in terms of two others.
- Students able to use position vectors.