

YEAR 11

ADDITIONAL MATHEMATICS



SRI KDU
International
School
SUBANG JAYA

PROGRAMME OF STUDY - TERM 2

DIFFERENTIATION

- Differentiating Polynomials
- Differentiating Trigonometric Functions
- Differentiating Exponential & Logarithmic Functions
- Differentiating Products of Functions
- Differentiating Quotients of Functions

APPLICATIONS OF DIFFERENTIATION

- Calculating Gradients, Tangents and Normals
- Stationary Points
- Small Increments and Approximations
- Practical Applications

INTEGRATION

- Integration as Anti-Differentiation
- Integrating Polynomials
- Integrating Trigonometric Functions
- Integrating Exponential and other Functions
- Evaluating definite Integrals
- Integrating to evaluate Plane Areas

ONGOING OBJECTIVES

- Applying Differentiation to Kinematics
- Applying Integration to Kinematics
- Using $x-t$ and $v-t$ Graphs