

IB DP IB1 HL Applications (Mr Jacobs) (IB2)

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Vi Summary			
SL - Integration Draft	1		
Subject Mathematics: applications and interpretation Course Part	Year IB2	Start date Week 2, January	Duration 3 weeks
Inquiry & Purpose			
Inquiry / Higher Orde	er Questions		
Туре	Inquiry Questions		
Concept-based	Why is the trapezium rule considered an approximate method?		
Skills-based	When do you include +c using integration and when do you not?		
🕀 Aims			
Communicate mathematics clearly, concisely and confidently in a variety of contexts			
♦ Objectives			
Knowledge and understanding: Recall, select and use their knowledge of mathematical facts, concepts and techniques in a variety of familiar and unfamiliar contexts.			
Syllabus Content			
Topic 5: Calculus			
SL Content			
SL 5.5			
Introduction to integration as anti-differentiation of functions of the form $f(x)=ax^n+bx^{n-1}+\ldots$, where $n\in\mathbb{Z}, n eq-1$			
Anti-differentiation with a boundary condition to determine the constant term.			
Definite integrals using technology.			
Area of a region enclosed by a curve $y=f(x)$ and the x -axis, where $f(x)>0.$			



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SL 5.8

Approximating areas using the trapezoidal rule.

👬 ATL Skills

P Approaches to Learning



- In this unit, we will

help students to make their thinking more visible (for example, by using a strategy such as a thinking routine)

