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الصف الثاني عشر متقدم

الدرس	الوحدة	عدد الحصص	أسبوع
Polynomial and Rational Functions 1-1	Chapter 1 Preliminaries to Calculus (Review material, (not to be assessed		
Inverse Functions 1-2			
Trigonometric and Inverse Trigonometric 1-3 Functions			
Exponential and Logarithmic Functions 1-4			
Transformation of Functions 1-5			
Preliminaries to Calculus 1-0	Interactive & Distance Learning - English Content	0	0
Limits and Continuity 2-0		0	
Differentiation 3-0		0	
Connect - Calculus 4-0		0	
A Brief Preview of Calculus: Tangent lines and 2-1 the length of a Curve	Chapter 2 Limits and Continuity	0	
The Concept of a Limit 2-2		0	
Computation of Limits 2-3		0	
Continuity and its Consequences 2-4		0	
Limits Involving Infinity; Asymptotes 2-5		0	
Tangent Lines and Velocity 3-1	Chapter 3 Differentiation	0	
The Derivative 3-2		0	
Computation of Derivatives: The Power Rule 3-3		0	
The Product and Quotient Rule 3-4		0	
The Chain Rule 3-5		0	
Derivatives of Trigonometric Functions 3-6-		0	
Derivatives of Exponential and Logarithmic 3-7 Functions		0	
Implicit differentiation and Inverse 3-8 Trigonometric Functions		0	
The Mean Value Theorem 3-10		0	
Lesson 1- Linear Approximations and Newton's Method	Chapter 4 Application of Differentiation	0	
Lesson 2 - Indeterminate Forms and L'Hopital Rule		0	
Student Book-Term 1	Student Book-Term 1	0	

الدرس	الوحدة	عدد الحصص	أسبوع
G11 Chapter 9 SE	G12 T1 Textbook and Solution Manual		
Connect - Calculus 1-0	Interactive & Distance Learning - English Content	0	0
G12 Chapter 1 SE	G12 T1 Textbook and Solution Manual	0	
G12 Chapter 2 SE		0	
G12 Chapter 3 SE		0	
G12 Chapter 4 SE		0	
G12 Textbook Solution Manual		0	
Connecting a Function, Its First Derivative, and Its Second Derivative 5-9	AP Calculus AB Unit 5 – Analytical Applications of Differentiation	0	
Introduction to Optimization Problems 5-10		0	
Solving Optimization Problems 5-11		0	
Exploring Behaviors of Implicit Relations 5-12		0	
Exploring Accumulations of Change 6-1	AP Calculus AB Unit 6 – Integration and Accumulation of Change	0	
Approximating Areas with Riemann Sums 6-2		0	
Riemann Sums, Summation Notation, and Definite Integral Notation 6-3		0	
The Fundamental Theorem of Calculus and Accumulation Functions 6-4		0	
Interpreting the Behavior of Accumulation Functions Involving Area 6-5		0	
Applying Properties of Definite Integrals 6-6		0	
The Fundamental Theorem of Calculus and Definite Integrals 6-7		0	
Finding Antiderivatives and Indefinite Integrals: Basic Rules and Notation 6-8		0	
Integrating Using Substitution 6-9		0	
Integrating Functions Using Long Division and Completing the Square 6-10		0	
Selecting Techniques for Antidifferentiation 6-14		0	
Modeling Situations with Differential Equations 7-1	AP Calculus AB Unit 7 – Differential Equations	0	
Verifying Solutions for Differential Equations 7-2		0	

Sketching Slope Fields 7-3		0	
Reasoning Using Slope Fields 7-4		0	
Finding General Solutions Using Separation of 7-6 Variables		0	
Finding Particular Solutions Using Initial 7-7 Conditions and Separation of Variables		0	
Exponential Models with Differential Equations 7-8		0	
Finding the Average Value of a Function on an 8-1 Interval	AP Calculus AB Unit 8 – Applications of Integration	0	
Connecting Position, Velocity, and Acceleration 8-2 of Functions Using Integrals		0	
Using Accumulation Functions and Definite 8-3 Integrals in Applied Contexts		0	
Finding the Area Between Curves Expressed as 8-4 Functions of x		0	
Finding the Area Between Curves Expressed as 8-5 Functions of y		0	
Finding the Area Between Curves That Intersect 8-6 at More Than Two Points		0	
Volumes with Cross Sections: Squares and 8-7 Rectangles		0	
Volumes with Cross Sections: Triangles and 8-8 Semicircles		0	
Volume with Disc Method: Revolving Around 8-9 the x - or y -Axis		0	
Volume with Disc Method: Revolving Around 8-10 Other Axes		0	
Volume with Washer Method: Revolving 8-11 Around the x - or y -Axis		0	
Volume with Washer Method: Revolving 8-12 Around Other Axes		0	
Integrating Using Integration by Parts 6-11		AP Calculus BC Topics from Units 6 – 8	0
Integrating Using Linear Partial Fractions 6-12	0		
Evaluating Improper Integrals 6-13	0		
Approximating Solutions Using Euler’s Method 7-5	0		
Logistic Models with Differential Equations 7-9	0		
The Arc Length of a Smooth, Planar Curve and 8-13 Distance Traveled	0		