Dubai International Private School -Br

DIPS, in partnership with parents and community, strives to ensure all students are digitally literate, lifelong learners, productive citizens and nurture their well-being in an inclusive learning environment.

Subject Matter: Math

Semester: 1   **(2024 – 2025)**

Grade Level		Subject: Calculus	
Teacher(s) Name		Ibrahim Hage Hussein and Farhat Falou	
Textbook		**Smith (EMEA), Calculus: Early Transcendental Functions, 5th Edition**	
Week #	**Dates**		**Lesson Title / Pages**	**CCSS / NGSS Code / MOE**
1	26 Aug	30 Aug	**Revision** **Diagnostic Test**	
2	2 Sept	6 Sept	**Lesson 1.3: Computations of limits**	
3	9 Sept	13 Sept	**Lesson 1.3: Computations of limits**	
4	16 Sept	20 Sept	**Lesson 1.3: Computations of limits** **Lesson 1.5: limits involving infinity**	
5	23 Sept	27 Sept	**Lesson 1.5: limits involving infinity**	
6	30 Sept	4 Oct	**Lesson 1.4: Continuity and its consequences.**	
7	7 Oct	11 Oct	**Lesson 1.4: Continuity and its consequences.**	
8	14 Oct	18 Oct	**Lesson 2.1: Tangent lines and velocity.**	
9	21 Oct	25 Oct	**Lesson 2.2: The derivative.**	

10	28 Oct	1 Nov	**Lesson 2.3: Computation of Derivatives: The Power Rule**	
11	4 Nov	8 Nov	**Lesson 2.4: The Product and Quotient Rules**	
12	11 Nov	15 Nov	**Lesson 2.5: The Chain Rule**	
13	18 Nov	22 Nov	**Lesson 2.8 Implicit Differentiation and Inverse Trigonometric Functions**	
14	25 Nov	29 Nov	**Lesson 3.3: Maximum and Minimum Values**	
15	2 Dec	6 Dec	**Lesson 3.4: Increasing and Decreasing Functions**	
16	9 Dec	13 Dec	**Lesson 3.5: Concavity and the Second Derivative Test**	
17	6 Jan	10 Jan	**Lesson 3.8: Related Rates**	
18	13 Jan	17 Jan	**Final Exams**	
19	20 Jan	24 Jan	**Final Exams**	