Curriculum				
Grade:	11 IP			
Subject:	Mathematics			

Topic	Description	Lesson	Lesson Code	Objectives
Precalculus	<ul> <li>→ How to solve a quadratic equation and sketch the graph of a quadratic function.</li> <li>→ How to identify the characteristics of equations and sketch their graphs.</li> <li>→ How to find and graph equations of lines, including parallel and perpendicular lines, using the concept of slope.</li> <li>→ How to evaluate and graph functions and their transformations.</li> </ul>	Quadratic Functions	P0.1	Complex Numbers
				Solving quadratic equations by factoring,
				completing the square and the quadratic
			P0.2	formula.
			P0.3	Quadratic functions and their graphs.
			P0.4	Quadratic Models.
		Graphs and Models	P1.1	Sketch the graph of an equation.
			P1.2	Find the intercepts of a graph.
				Test a graph for symmetry with respect
			P1.3	to an axis and the origin.
				Find the points of intersection of two
			P1.4	graphs.
		Linear Models and Rates of Change		Find the slope of a line passing through
			P2.1	two points.
				Write the equation of a line with a given
			P2.2	point and slope.
				Write the equation of a line in slope-
			P2.3	intercept form.
				Write the equation of a vertical or
			P2.4	horizontal line.
			P2.5	Write equations of lines that are parallel

				or perpendicular to a given line.
		Functions and Their Graphs		Use function notation to represent and
			P3.1	evaluate a function.
			P3.2	Find the domain and range of a function.
			P3.3	Sketch the graph of a function.
				Identify different types of
			P3.4	transformations of functions.
				Classify functions and recognize
			P3.5	combinations of functions.
Calculus	The branch of mathematics concerned with the calculation of instantaneous rates of change	Limits and Their Properties: A preview of Calculus		Understand what calculus is and how it
			C1.1.1	compares to precalculus.
				Understand that the tangent line
			C1.1.2	problem is basic to calculus.
		Limits and Their		Estimate a limit using a numerical or
		Properties: Finding	C1.2.1	graphical approach.
	(differential calculus)	Limits Graphically		Learn different ways that a limit can fail
	and the summation of infinetely many small factors to determine some whole (integral	and Numerically	C1.2.2	to exist.
		Limits and Thoir	C1.3.1	Evaluate a limit using properties of limits.
		Properties: Evaluating Limits		Develop and use a strategy for finding
			C1.3.2	limts.
				Evaluate a limit using dividing out and
	calculus).		C1.3.3	rationalizing techniques.
	Preparation for the			
	SAT standardized test			
	that is widely used for			Learning different strategies and tactics
SAT	college admissions.	SAT Practice	SAT	to solve various SAT questions.