TEACHER	 : MYP 4 - GRADE 9 BILINGUAL : EVANGELOS C. ZIOULAS : Computer Science A, B, C GYMNASIUM (written by: Arapoglou, Mavoglou, Oikonomakos, Fitros) 	VCZ
CURRICULUM		
UNIT 1	INTRODUCTION TO ALGORITHMS	
Chapter 1	The problem concepts The algorithm concept (definition and examples) Algorithmic features, Representation modes of an algorithm Programming languages (historical evolution) The programming environment (stages of a program execution)	
UNIT 2	INTRODUCTION TO PROGRAMMING WITH LOGO	
Chapter 2	Introduction to MicroWorlds EX programming environment Basic commands of Logo in MicroWorlds EX Input & Output commands The loop structure (repeat) Design of geometrical shapes with Logo	
UNIT 3	PROCEDURAL PROGRAMMING	
Chapter 2	Using variables in Logo The assignment command (make) Procedural Programming (Creating procedures in Logo) Logical expressions (Simple & Complex conditions) Operators AND, OR and NOT (Table of truth) The logic structures (if and If else)	
	Project of 1 st semester	
UNIT 4	PROGRAMMING WITH PYTHON	
	Python IDLE Programming EnvironmentIntroduction to Python Programming LanguageInput and Output CommandsVariables and CalculationsLogic and LoopsProcessing StringsTuples, Lists and DictionariesProcedural Programming, FunctionsPython ModulesThe turtle Module (Turtle's Geometry)Project of 2 nd semester	