

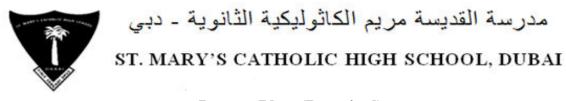
# مدرسة القديسة مريم الكاثوليكية الثانوية - دبي ST. MARY'S CATHOLIC HIGH SCHOOL, DUBAI

### Lesson Plan (Theory)

#### YEAR 9 – Computer Science (Week 5)-2021-2022

Subject	Computer Science
Class/ Section	Year 9(A-F)
Week	26 <sup>th</sup> -30 <sup>th</sup> September
Work send to students by	Google classroom
Total number of lessons per week	2
Unit/Topic	Unit 1: Problem solving Topic: Understanding Algorithms
Key vocabulary	Algorithm, Pseudocode
Lessons 1,2 –Live Zoom lesson along with face to face instruction for students present on a particular day Work will be assigned in Google classroom which will be matched to the student's ability.	<ul> <li>Specific Learning objectives</li> <li>To be able to <ul> <li>express algorithms as pseudocode</li> <li>understand the programming concepts used in pseudocode</li> </ul> </li> <li>Specific Intended Learning Outcomes <ul> <li>Students will be able to express algorithms as pseudocode</li> <li>Students will use the programming concepts used in pseudocode</li> </ul> </li> </ul>

Tasks/Activities	<ul> <li>-Express algorithm in pseudocode.</li> <li>-Identify errors in the pseudocode</li> <li>- State the input variables in the pseudocode.</li> <li>-State the purpose of pseudocode.</li> <li>They will be put in break out rooms during Zoom lesson to</li> </ul>
Assessment Criteria/ Essential questions	encourage collaborative learning. Essential Question that are according to the Pearson Edexcel specification -Activity questions will be posted in Google classroom For example, assessment objectives expected by the board with
	respect to the above question is listed below. AO1: Demonstrate knowledge and understanding of expressing algorithms as pseudocode AO2: Apply knowledge and understanding of expressing algorithms as pseudocode
Resources	https://qualifications.pearson.com/en/qualifications/edexcelintern ational-gcses-and-Edexcel-certificates/international- gcsecomputer-science- 2017.resources.html?filterQuery=category:PearsonUK:Publisher %2FPearson PowerPoint presentation
	Video links: https://www.youtube.com/watch?v=ngeNdzY4E9E https://www.youtube.com/watch?v=XDWw4Ltfy5w https://www.youtube.com/watch?v=4G0EYfrrDT8



## Lesson Plan (Practical)

#### YEAR 9 – Computer Science (Week 5)-2021-2022

Subject	Computer Science (CS)
Class/ Section	Year 9(A-F)
Week	26 <sup>th</sup> -30 <sup>th</sup> September
Work send to students by	Google classroom
Total number of lessons per week	2
Unit/Topic	Python Programming
Key vocabulary	integer, float, boolean, string
Lessons 1,2–Live Zoom/GC lesson along with face to face instruction for students present on a particular day Work will be assigned in Google classroom which will be matched to the student's ability.	<ul> <li>Specific Learning objectives         <ul> <li>To be able to</li> <li>understand the need for &amp; how to use, data types.</li> <li>understand user input and output statements in python.</li> </ul> </li> <li>Specific Intended Learning Outcomes         <ul> <li>Students will be able to know                 <ul> <li>different data types like integer, float, boolean, string</li> </ul> </li> </ul> </li> </ul>
	- the input function & the print function in Python

Tasks	<ul> <li>Activity questions in Google Classroom on:</li> <li>Suggest an appropriate data type for variables &amp; constants</li> <li>Explain why the program does not work.</li> <li>Correct of a python program.</li> </ul>
Assessment Criteria/ Essential questions	For example, assessment objectives expected by the board with respect to the above question is listed below.
	Implementation of algorithms written in pseudocode into high level programming language (python)
	AO1: Demonstrate knowledge and understanding of Python programming AO2: Apply knowledge and understanding of Python code
Resources	PowerPoint presentation
	Video links: https://www.youtube.com/watch?v=KrToaEvDzdk&t=176s https://www.youtube.com/watch?v=T1j2tfZK7OI https://www.youtube.com/watch?v=afJ2CuFbHKo