

Lesson Plan (Theory)

YEAR 9 - Computer Science (Week 3)-2021-2022

Subject	Computer Science
Class/ Section	Year 9(A-F)
Week	12 th September to 16 th 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, construct, sequence, high level programming language, written description, flowchart
Lessons 1,2 –Live Zoom lesson along with face to face instruction for students present on a particular day	 Specific Learning objectives To be able to understand What is decomposition, Selections and Iteration To interpret algorithms
Work will be assigned in Google classroom which will be matched to the student's ability.	 Specific Intended Learning Outcomes Students will be able to define the above terms Students will be able to interpret algorithms as written description & flowchart

Tasks/Activities

- Student should express algorithms as written description
- Students will be given tasks on Flowcharts

Assessment Criteria/ Essential questions

Essential Question that are according to the Pearson Edexcel specification

SAM Q7. b)

Assessment objectives expected by the board with respect to the above question is listed below.

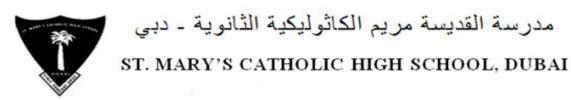
AO1: Demonstrate knowledge and understanding of an written description & flowcharts

AO2: Apply knowledge and understanding of written description & flowcharts

Resources

- 1. Power Point presentation
- 2. Edexcel IGCSE (9-1) Computer Science Student Book
- 3. https://qualifications.pearson.com/en/qualifications/edexcelinternational-gcses-and-edexcel-certificates/international-gcsecomputer-science-2017.resources.html?filterQuery=category:PearsonUK:Publisher%2FPearson
- 4. Video links:

https://www.youtube.com/watch?v=kM9ASKAni_s https://www.youtube.com/watch?v=rjDwaxyWzX8



Lesson Plan (Practical)

YEAR 9 - Computer Science (Week 3)-2021-2022

Computer Science (CS)
Year 9(A-F)
12 th September to 16 th September
Google classroom
2
Python Programming
Variables, Constants, Comments, operators
Specific Learning objectives To be able to understand Python identifiers • Python keywords • Variables and Constants • Comments • operators Specific Intended Learning Outcomes Students will be able to know how to use Python keywords Variables, Constants, Comments, operators in coding

Tasks	- Find the keywords and variables used in the program
Assessment Criteria/ Essential questions	 Write Python program using keywords, variables, constants and comments to (i) Accept only numbers from 1 to 25 (ii) If the input is outside the range print 'Invalid input'
	Assessment objectives expected by the board with respect to the above question is listed below. 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=UvcQlPZ8ecA https://www.youtube.com/watch?v=TqPzwenhMj0&list=RDCM UC59KuG2A5ogwIrHw4bmlEg&index=1 https://www.youtube.com/watch?v=v5MR5JnKcZI