

Lesson Plan (Theory)

YEAR 9 - Computer Science (Week 2)-2021-2022

Subject	Computer Science
Class/ Section	Year 9(A-F)
Week	5 th September to 9 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, outcome
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 an algorithm is • What algorithms are used for
Work will be assigned in Google classroom which will be matched to the students ability.	 Specific Intended Learning Outcomes Students will be able to define an Algorithm Should will be able to write examples of Algorithm

Tasks/Activities

- Students will answer questions on algorithm
- Student should list the points for deciding when an algorithm is successful or not
- Student will write 2-3 algorithms

They will be put in break out rooms during Zoom lesson to encourage collaborative learning on writing Algorithms

Assessment Criteria/ Essential questions

Essential Question that are according to the Pearson Edexcel specification e.g SAM Q7a) ii)

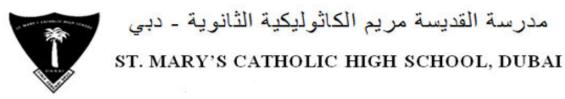
For example, assessment objectives expected by the board with respect to the above question is listed below.

AO1: Demonstrate knowledge and understanding of an Algorithm

AO2: Apply knowledge and understanding of algorithm in daily life

Resources

- 1. PowerPoint 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. Resource video links: https://www.youtube.com/watch?v=kM9ASKAni_s https://www.youtube.com/watch?v=rjDwaxyWzX8



Lesson Plan (Practical)

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Tasks Amend the program by fixing the errors in a program Rewrite the program Rewrite the program by filling in the missing line Write a Python program prints only even numbers from 1 **Assessment Criteria/** Python program helps to find the year of birth of a user. **Essential questions** For example, 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 Resource 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