



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

Lesson Plan (Theory)

YEAR 9 – Computer Science (Week 4)-2021-2022

Subject	Computer Science
Class/ Section	Year 9(A-F)
Week	19th -23rd 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, Flowchart
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.	<u>Specific Learning objectives</u> To be able to <ul style="list-style-type: none">• interpret algorithms as flowchart• amend/create algorithms and flowchart• determine the output of algorithm for a given set of data <u>Specific Intended Learning Outcomes</u> <ul style="list-style-type: none">• Students will be able to interpret algorithms as flowchart• Should will be able to determine the output of algorithm for a given set of data

<p>Tasks/Activities</p>	<ul style="list-style-type: none"> -Student should complete the flowchart for the algorithm. -Write the expected outcome for the given input. - Output value from an algorithm <p>They will be put in break out rooms during Zoom lesson to encourage collaborative learning</p>
<p>Assessment Criteria/ Essential questions</p>	<p>Essential Question that are according to the Pearson Edexcel specification</p> <p>Activity questions will be posted in Google classroom</p> <p>For example, assessment objectives expected by the board with respect to the above question is listed below.</p> <p>AO1: Demonstrate knowledge and understanding of algorithms as flowcharts</p> <p>AO2: Apply knowledge and understanding of algorithms as flowcharts</p>
<p>Resources</p>	<p>https://qualifications.pearson.com/en/qualifications/edexcelinternational-gcse-and-edexcel-certificates/international-gcsecomputer-science-2017.resources.html?filterQuery=category:PearsonUK:Publisher%2FPearson PowerPoint presentation</p> <p>Video links: https://www.youtube.com/watch?v=SWRDqTx8d4k https://www.youtube.com/watch?v=BQP2doXjVIQ https://www.youtube.com/watch?v=BVyuZ7icw6M</p>



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Lesson Plan (Practical)

YEAR 9 – Computer Science (Week 4)-2021-2022

Subject	Computer Science (CS)
Class/ Section	Year 9(A-F)
Week	19th -23rd September
Work send to students by	Google classroom
Total number of lessons per week	2
Unit/Topic	Python Programming
Key vocabulary	Descriptive names, comments, indentation, order of precedence
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.	<u>Specific Learning objectives</u> To be able to understand the benefit of producing programs that are <ul style="list-style-type: none">• easy to read• understand descriptive names, comments, indentation, and operators. <u>Specific Intended Learning Outcomes</u> Students will be able to know <ul style="list-style-type: none">-How to use indentation- the order of precedence of operators-Use of relational & logical operators- Use of truth tables of AND,OR & NOT

<p>Tasks</p> <p>Assessment Criteria/ Essential questions</p> <p>Resources</p>	<p>Activity questions in Google Classroom on:</p> <ul style="list-style-type: none">- Identify the line numbers where indentations are used- Output from relational and logical operators- Complete the truth tables <ul style="list-style-type: none">- Calculate result using the correct order of operations.- Identify line numbers where indentations <p>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</p> <p>PowerPoint presentation Video links: https://www.youtube.com/watch?v=-wDaVLkKOiU https://www.youtube.com/watch?v=v5MR5JnKcZI&t=2s https://www.youtube.com/watch?v=0-hzxfkpHy8&t=37s</p>
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