



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

**Lesson Plan (Theory)**

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

<b>Subject</b>	<b>Computer Science</b>
<b>Class/ Section</b>	<b>Year 9(A-F)</b>
<b>Week</b>	<b>5<sup>th</sup> September to 9<sup>th</sup> September</b>
<b>Work send to students by</b>	<b>Google classroom</b>
<b>Total number of lessons per week</b>	<b>2</b>
<b>Unit/Topic</b>	Unit 1: Problem solving Topic: Understanding Algorithms
<b>Key vocabulary</b>	Algorithm, construct, sequence, outcome
<b>Lessons 1,2 –Live Zoom lesson along with face to face instruction for students present on a particular day</b>  <b>Work will be assigned in Google classroom which will be matched to the students ability.</b>	<b><u>Specific Learning objectives</u></b> To be able to understand <ul style="list-style-type: none"><li>• What an algorithm is</li><li>• What algorithms are used for</li></ul> <b><u>Specific Intended Learning Outcomes</u></b> <ul style="list-style-type: none"><li>• Students will be able to define an Algorithm</li><li>• Should will be able to write examples of Algorithm</li></ul>

<p><b>Tasks/Activities</b></p>	<ul style="list-style-type: none"> <li>- Students will answer questions on algorithm</li> <li>- Student should list the points for deciding when an algorithm is successful or not</li> <li>- Student will write 2-3 algorithms</li> </ul> <p>They will be put in break out rooms during Zoom lesson to encourage collaborative learning on writing Algorithms</p>
<p><b>Assessment Criteria/ Essential questions</b></p>	<p>Essential Question that are according to the Pearson Edexcel specification e.g SAM Q7a) ii)</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 an Algorithm AO2: Apply knowledge and understanding of algorithm in daily life</p>
<p><b>Resources</b></p>	<ol style="list-style-type: none"> <li>1. PowerPoint presentation</li> <li>2. Edexcel IGCSE (9-1) Computer Science Student Book</li> <li>3. <a href="https://qualifications.pearson.com/en/qualifications/edexcelinternational-gcses-and-edexcel-certificates/international-gcsecomputer-science-2017.resources.html?filterQuery=category:PearsonUK:Publisher%2FPearson">https://qualifications.pearson.com/en/qualifications/edexcelinternational-gcses-and-edexcel-certificates/international-gcsecomputer-science-2017.resources.html?filterQuery=category:PearsonUK:Publisher%2FPearson</a></li> <li>4. Resource video links: <a href="https://www.youtube.com/watch?v=kM9ASKAni_s">https://www.youtube.com/watch?v=kM9ASKAni_s</a> <a href="https://www.youtube.com/watch?v=rjDwaxyWzX8">https://www.youtube.com/watch?v=rjDwaxyWzX8</a></li> </ol>



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**Lesson Plan (Practical)**

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

<b>Subject</b>	<b>Computer Science (CS)</b>
<b>Class/ Section</b>	<b>Year 9(A-F)</b>
<b>Week</b>	<b>5<sup>th</sup> September to 9<sup>th</sup> September</b>
<b>Work send to students by</b>	<b>Google classroom</b>
<b>Total number of lessons per week</b>	<b>2</b>
<b>Unit/Topic</b>	<b>Python Programming</b>
<b>Key vocabulary</b>	<b>Variables, Constants, Comments, operators</b>
<b>Lessons 1,2–Live Zoom/GC lesson along with face to face instruction for students present on a particular day</b> <b>Work will be assigned in Google classroom which will be matched to the students ability.</b>	<b><u>Specific Learning objectives</u></b> To be able to understand Python identifiers <ul style="list-style-type: none"><li>• Python keywords</li><li>• Variables and Constants</li><li>• Comments</li><li>• operators</li></ul> <b><u>Specific Intended Learning Outcomes</u></b> Students will be able to know how to use Python keywords Variables, Constants, Comments, operators in coding

<b>Tasks</b>	<ul style="list-style-type: none"><li>- Amend the program by fixing the errors in a program</li><li>- Rewrite the program</li><li>- Rewrite the program by filling in the missing line</li></ul>
<b>Assessment Criteria/ Essential questions</b>	<ul style="list-style-type: none"><li>- Write a Python program prints only even numbers from 1 to n</li><li>- Python program helps to find the year of birth of a user.</li></ul> <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>
<b>Resources</b>	<p>PowerPoint presentation Resource video links: <a href="https://www.youtube.com/watch?v=UvcQIPZ8ecA">https://www.youtube.com/watch?v=UvcQIPZ8ecA</a> <a href="https://www.youtube.com/watch?v=TqPzwenhMj0&amp;list=RDCMUC59KuG2A5ogwIrHw4bmlEg&amp;index=1">https://www.youtube.com/watch?v=TqPzwenhMj0&amp;list=RDCMUC59KuG2A5ogwIrHw4bmlEg&amp;index=1</a> <a href="https://www.youtube.com/watch?v=v5MR5JnKcZI">https://www.youtube.com/watch?v=v5MR5JnKcZI</a></p>