



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

**Lesson Plan (Theory)**

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

<b>Subject</b>	<b>Computer Science</b>
<b>Class/ Section</b>	<b>Year 9(A-F)</b>
<b>Week</b>	<b>12<sup>th</sup> September to 16<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, high level programming language, written description, flowchart
<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 student's ability.</b>	<b><u>Specific Learning objectives</u></b> To be able to understand <ul style="list-style-type: none"><li>• What is decomposition, Selections and Iteration</li><li>• To interpret algorithms</li></ul> <b><u>Specific Intended Learning Outcomes</u></b> <ul style="list-style-type: none"><li>• Students will be able to define the above terms</li><li>• Students will be able to interpret algorithms as written description &amp; flowchart</li></ul>

<p><b>Tasks/Activities</b></p>	<ul style="list-style-type: none"> <li>- Student should express algorithms as written description</li> <li>- Students will be given tasks on Flowcharts</li> </ul>
<p><b>Assessment Criteria/ Essential questions</b></p>	<p>Essential Question that are according to the Pearson Edexcel specification SAM Q7. b)</p> <p>Assessment objectives expected by the board with respect to the above question is listed below.</p> <p>AO1: Demonstrate knowledge and understanding of an written description &amp; flowcharts AO2: Apply knowledge and understanding of written description &amp; flowcharts</p>
<p><b>Resources</b></p>	<ol style="list-style-type: none"> <li>1. Power Point presentation</li> <li>2. Edexcel IGCSE (9-1) Computer Science Student Book</li> <li>3. <a href="https://qualifications.pearson.com/en/qualifications/edexcel-international-gcses-and-edexcel-certificates/international-gcsecomputer-science-2017.resources.html?filterQuery=category:PearsonUK:Publisher%2FPearson">https://qualifications.pearson.com/en/qualifications/edexcel-international-gcses-and-edexcel-certificates/international-gcsecomputer-science-2017.resources.html?filterQuery=category:PearsonUK:Publisher%2FPearson</a></li> <li>4. 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 3)-2021-2022**

<b>Subject</b>	Computer Science (CS)
<b>Class/ Section</b>	Year 9(A-F)
<b>Week</b>	12 <sup>th</sup> September to 16 <sup>th</sup> September
<b>Work send to students by</b>	Google classroom
<b>Total number of lessons per week</b>	2
<b>Unit/Topic</b>	Python Programming
<b>Key vocabulary</b>	Variables, Constants, Comments, operators
<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

<p><b>Tasks</b></p>  <p><b>Assessment Criteria/ Essential questions</b></p>          <p><b>Resources</b></p>	<ul style="list-style-type: none"><li>- Find the keywords and variables used in the --- program</li> <li>- Write Python program using keywords, variables, constants and comments to<ul style="list-style-type: none"><li>(i) Accept only numbers from 1 to 25</li> <li>(ii) If the input is outside the range print ‘Invalid input’</li></ul></li></ul> <p>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: <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>
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