مدرسة القديسة مريم الكاثوليكية الثانوية - دبي

ST. MARY'S CATHOLIC HIGH SCHOOL, DUBAI

Theory

YEAR 7 – Computing (Week3)-2021-2022

Subject	**Computing**
Class/ Section	**Year 7A-F**
Week	**12th September to 16th September**
Work send to students by	**Google classroom**
Total number of lessons per week	**2**
Unit/ Topic:	**– Computational thinking (Chapter 1)** **1.2 Pattern recognition**
Key Vocabulary	**Pattern, Selection, Iteration**
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 students ability.**	**Specific Learning objectives:** • Understand Pattern recognition • Understand Algorithm using Selection • Understand Algorithm using Iteration **Specific Intended Learning Outcomes** - Students will be able to understand pattern recognition. - Students will be able to understand algorithm using Selection. - Students will be able understand algorithm using Iteration.

Tasks/Activities	The teacher would introduce pattern recognition and explain how to use in real life. Students will explore it by looking the images and finding similarities and differences between the images. The teacher will introduce algorithm using selection and iteration with suitable examples. Students will explore that by doing with small algorithm. Students will be put in break out rooms during Zoom lesson to encourage collaborative learning.
Assessment Criteria/ **Essential questions**	Essential tasks that are according to curriculum: • Algorithm to find biggest among two numbers using **selection**. • Algorithm to find biggest among three numbers using **selection**. • Algorithm to print 1 to n using **iteration**.
Resources	1. Matrix Computing for 11-14 -1 Page No 12 to 15 2. PowerPoint presentation on the topic

Practical

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Key Vocabulary	**Pattern, Selection, Iteration**
Lessons 1,2 –Live Zoom lesson along with face to face instruction for students present on a particular day	**Specific Learning objectives:** • Understand Algorithm using Selection • Understand Algorithm using Iteration
Work will be assigned in google classroom which will be matched to the students ability.	**Specific Intended Learning Outcomes** - Students will be able to write algorithm using Selection. - Students will be able write algorithm using Iteration.
Tasks/Activities	Students will explore the general syntax used for algorithm using selection/ Iteration. Student will complete the worksheet uploaded in Google classroom using Algorithm with Selection and Iteration.
Assessment Criteria/ Essential questions	Essential tasks that are according to curriculum: • Algorithm to find given number is "Positive" or "Negative" using **selection.**

	• Algorithm to find grade for given mark using **selection.** • Algorithm to print only odd numbers from 1 to n using **iteration.** Assessment objectives expected by the curriculum with respect to the above question are listed below. Obj1: Order the algorithm in correct order. Obj2: Finding output of given algorithm. Obj3: Write an algorithm using iteration.
Resources	1. Matrix Computing for 11-14 -1 Page No 8 2. Worksheet on the topic