مدرسة القديسة مريم الكاثوليكية الثانوية - دبي

ST. MARY'S CATHOLIC HIGH SCHOOL, DUBAI

Theory

YEAR 7 – Computing (Week4)-2021-2022

Subject	**Computing**
Class/ Section	**Year 7A-F**
Week	**19th September to 23rd 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- continuation**
Key Vocabulary	**Iteration, FOR, END FOR, N times**
Lessons 1 –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 the purpose of ITERATION in algorithm (Recap) • Understand the basic syntax for ITERATION (Recap) **Specific Intended Learning Outcomes** - Students will be able to understand the purpose of ITERATION in algorithm (Recap) - Students will be able to understand the basic syntax for ITERATION (Recap).

Tasks/Activities	The teacher would recap the basic syntax of ITERATION in algorithm. Then teacher will continue with related example program. Students will explore it by comparing the general syntax with example programs.. The teacher will show to find the output of given algorithm using ITERATION. 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 print 1 to n using ITERATION. • Algorithm to print only even numbers 2 to n using ITERATION. • Algorithm to find sum of 2 numbers for ‘n’ times 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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Total number of lessons per week	**2**
Unit/ Topic:	**– Computational thinking (Chapter 1)** **1.2 Pattern recognition- continuation**
Key Vocabulary	**Iteration, FOR, END FOR, N times**
Lessons 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.** **Tasks/Activities**	**Specific Learning objectives:** • Understand the purpose of ITERATION in algorithm with suitable examples. • Understand the basic syntax for ITERATION with suitable examples. **Specific Intended Learning Outcomes** • Students will be able to understand the purpose of ITERATION in algorithm with suitable examples. • Students will be able to understand the basic syntax for ITERATION with suitable examples. Students will explore the general syntax used for algorithm using Iteration. Student will complete the worksheet uploaded in Google classroom using Algorithm with Iteration.

Assessment Criteria/ **Essential questions**	Essential tasks that are according to curriculum: • Convert a given algorithm to find for n times using ITERATION**.** • Find the output for a given algorithm using ITERATION**.** • Write an algorithm to print only odd numbers from 25 to n using ITERATION. • Convert a given algorithm to find price after discount for 5 items using ITERATION. Assessment objectives expected by the curriculum with respect to the above question is listed below. Obj1: Convert a given algorithm. Obj2: Finding output of given algorithm.
Resources	1. Matrix Computing for 11-14 -1 Page No 8 2. Worksheet on the topic