

مدرسة القديسة مريم الكاثوليكية الثانوية - دبي

ST. MARY'S CATHOLIC HIGH SCHOOL, DUBAI

Theory

YEAR 10 – Computer Science (Week 4) 2021-2022

Subject	Computer Science
Class/ Section	Year 10 A-F
Week	19 th September to 23 rd September
Work send to students by	Google classroom
Total number of lessons per week	2
Unit/Topic	Unit 4: Computers Chapter 17 : Hardware
Key Vocabulary	platters, latency, cloud storage, virtualisation
Lessons 1,2–Live Zoom lessons 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	 Specific Learning objectives ➤ Understand and describe how data is stored on physical storage devices. ➤ Understand the need for cloud storage.
the students' ability.	Specific Intended Learning Outcomes
	 Students will be able to Demonstrate how data is stored on physical devices – Magnetic, Optical and Solid state. Explain storing data in the 'cloud' and other contemporary secondary storage.
Tasks	Students will complete the Activity questions 1 to 5 on secondary storage.

Assessment Criteria/ Essential questions	An optical storage device writes data onto a CD or DVD. Describe how data is stored physically on optical media.
	Assessment objectives expected by the board with respect to the above question is listed below.
	AO1: Demonstrate knowledge and understanding of secondary storage.
	AO2: Apply knowledge and understanding of how data is stored in storage devices
Resources	Pearson Edexcel International GCSE(9-1) Computer Science Book PowerPoint presentation
	Resource video links:
	 https://www.youtube.com/watch?v=H_MweEzpA https://www.youtube.com/watch?v=wI0upu9eVcw https://www.youtube.com/watch?v=0V8CaeDd4Kw https://www.youtube.com/watch?v=_0KIfGxp37E&list= RDQMG4B4IBn5BDo&start_radio=1 https://www.youtube.com/watch?v=_tyjqozrEPY&list= PL1-K7zZEsYLmOF_07IayrTntevxtbUxDL&t=8s

Practical

YEAR 10 – Computer Science (Week 4) 2021-2022

Subject	Computer Science
Class/ Section	Year 10 A-F
Week	19 th September to 23 rd September
Work send to students by	Google classroom
Total number of lessons per week	2
Unit/Topic	Unit 2 : Programming
	Chapter 8 : Data structures
Key vocabulary	array, index, record, field
Lessons 1,2–Live Zoom lessons 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 need for, and understand how to use two-dimensional array. Construct and use two-dimensional lists in Python programming language. Specific Intended Learning Outcomes
	 Students will be able to Describe the structure of two-dimensional array and give examples of their use. Create and use two-dimensional lists in Python programming language.
Tasks	classroom. To encourage collaborative learning environment, students will be grouped in break out rooms to discuss and solve the questions.
Assessment Criteria/ Essential questions	International GCSE(9-1) - SAM (2017) – Q6.
	Assessment objectives expected by the board with respect to the above question is listed below.

	AO1: Analyse problems in computational terms to make reasoned judgements.AO2: Analyse problems in computational terms to design, program, test, evaluate and refine solutions.
Resources	Pearson Edexcel International GCSE(9-1) Computer Science Book PowerPoint presentation.
	Resource video links: <u>https://www.youtube.com/watch?v=B5Gh1XhDfoE</u> <u>https://www.youtube.com/watch?v=mYBK8tQP2TY</u>