A Level Computer Science

**Online Teaching Plan**

**Classes: AS Computer Science**

**Web Tools/Resources**

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| **Purpose** | **Site/Platform** |
| Online Meeting Platform | ZOOM.US |
| Assignments | EMAIL/Pan Drive/OneDrive |
| Quizzes and Feedback | Microsoft Forms/freeonlinesurveys.com etc |
| Video/Presentation | MS Power point |

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| *Class* | *Implementation Plan* |
| S2  A level. | 1. Inform the children about the next unit/chapter beforehand. 2. The lesson video or presentation and other relevant materials will be prepared and sent to children in advance of the online session. 3. The presentation will have the necessary narration/explanation of the complex topics of the chapter. Students will go through the textbook and presentation before attending the online session. 4. The students will be informed of the online meeting time. 5. The online session will be conducted using the various tools available in zoom platform. 6. Interact and clear doubts using the chat facility. 7. Assign the homework /project/assignment/worksheet as required by the lesson either before/during or at the end of the unit/chapter. 8. Quizzes and feedback will be conducted using suitable online facility like Microsoft forms. 9. Mark the necessary assignments and give feedback. |

Week 1

**Level: AS**

**Class: S2**

**Pre-Release material for CAIE Exam Paper 2**

**Objective:**

Guide the students about the CAIE Paper 2 exam and review the topic suggested in the prerelease material.

Students will do that tasks given in the material and submit.

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| Day 1 | Task 1 Pre-Release material- Key Focus: Structure Charts |
| Day 2 | Task 2 Pre-Release material – Key Focus: Algorithms, Arrays and Pseudocode |
| Day 3 | Task 3 and 4 Pre-Release material – Key Focus: Programs containing several components (File processing) |

**Assessment:**

Students will do the necessary programs and submit the code/documentation. Necessary feedback must be given after evaluating their work.

**Week 2**

**Chapter: Data Security, Privacy and Integrity**

Objectives:

* Differentiate between the terms security, privacy and integrity of data
* Data security vs Computer System Security
* List various security measures to protect data and systems
* List various security measures to protect computer systems and networks
* Types of data errors and methods of preventing them
* Error detection and correction measures using Data validation and verification techniques

Resources:

* Chapter 8 of Computer Science text book
* Chapter 6 in Revision Guide Page no. 60 onwards
* Customized Power point presentation
* Worksheets are prepared to cover the whole chapter.

Action Plan

* The students will be informed of the topic three days in advance.
* The presentation will also be sent in advance via WeChat so that students are familiar with the content and ready with their queries,
* The teaching will happen online using ZOOM’s screen sharing facility.
* In case of any problems with Internet/Electricity the class can continue using Zoom app on phone or via WeChat group call.

Assessment of and for learning:

* Assessment for Learning: Worksheet will be assigned which will be sent to students using WeChat, discussed in next class and collected using email.
* Assessment of learning: Online quiz will be conducted so as to assess the students understanding.
* The lesson feedback will be taken at the end.