Revision Guide for A-Level Computer Science Unit 1.2.2 (SLR 05)

1.2.2 Applications Generation

Candidates need to understand the purpose of applications, and should have knowledge and experience of a range of different application software (for example database, word processor, web browser, graphics manipulation etc.).	Before Revision☆☆☆☆☆ After Revision☆☆☆☆☆
Candidates should be able to recommend the use of specific and generic applications for given scenarios, justifying their use and function(s) for a scenario.	Before Revision☆☆☆☆☆ After Revision☆☆☆☆☆
Candidates need to understand the purpose and role of utility software in a computer system.	Before Revision☆☆☆☆☆ After Revision☆☆☆☆☆
Candidates should be familiar with a range of utility software (e.g. disk defragmentation, file management, device driver, system clean-up, security etc.)	Before Revision☆☆☆☆☆ After Revision☆☆☆☆☆
Candidates need to be able to explain the differences between open and closed source software, the benefits and drawbacks to creator and user of each of the licensing models, and be able to recommend which is used (with justification) for a specific scenario.	Before Revision☆☆☆☆☆ After Revision☆☆☆☆☆
Candidates need to understand the need for translators when writing programs.	Before Revision☆☆☆☆☆ After Revision☆☆☆☆☆
Candidates need to have knowledge of the differences in operation of interpreters and compilers, from these they need to be able to assess the benefits and drawbacks of using each type, and recommend with justification which should be used in a specific scenario.	Before Revision☆☆☆☆☆ After Revision☆☆☆☆☆
Candidates need to understand the role of an assembler and how it differs from interpreters and compilers.	Before Revision☆☆☆☆☆ After Revision☆☆☆☆☆
Candidates need to understand that there are a number of stages involved in compilation.	Before Revision☆☆☆☆☆ After Revision☆☆☆☆☆
Candidates need to understand how lexical analysis works and how the code is converted into tokens with the removal of unnecessary elements (e.g. comments and whitespace).	Before Revision☆☆☆☆☆ After Revision☆☆☆☆☆
Candidates need to understand how syntax errors are identified and reported at the end of the syntax analysis.	Before Revision☆☆☆☆☆ After Revision☆☆☆☆☆

Slideshow (Shared area)	PG Online Textbook	Teach-ICT	CraignDave (Youtube)
Slides 1 to 74 **Read ☐** **Starter Activities ☐**	Section 2: Chapters 9 & 10 Pages 39 to 50 **Read ☐** **Questions ☐** **Exercises P43 ☐** **Exercises P50 ☐**	1.2.2 Applications Generation – Types of applications and utilities **Theory ☐** **Lesson Tasks ☐** 1.2.2 Applications Generation – Application Generation Program Creation **Theory ☐** **Lesson Tasks ☐** 1.2.2 Applications Generation – Stages of Compilation **Theory ☐** **Lesson Tasks ☐** 1.2.2 Applications Generation – Linkers, loaders and liraries **Theory ☐** **Lesson Tasks ☐**	OCR A'Level The nature of applications **Watched ☐** **Cornell Notes ☐** OCR A'Level Utilities **Watched ☐** **Cornell Notes ☐** OCR A'Level Open vs Closed **Watched ☐** **Cornell Notes ☐** OCR A'Level Translators **Watched ☐** **Cornell Notes ☐** OCR A'Level Stages of compilation **Watched ☐** **Cornell Notes ☐** OCR A'Level Linkers, loaders & libraries **Watched ☐** **Cornell Notes ☐**