

Computer Science Curriculum Summary



YEAR 11 CURRICULUM SUMMARY

Vhen?	Knowledge	Assessment
AUTUMN FERM – FIKST HAIT (7 Weeks)	<section-header><text><text><text><text><text></text></text></text></text></text></section-header>	ProProfs Online Quizzes developed by GCS Computing Department Ethical Aspects QUIZ Environmental Aspects QUIZ Open Source vs Proprietary Software QUIZ Legal Considerations QUIZ Programming QUIZ Further Programming QUIZ

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When?	Knowledge	Assessment
AUTUMN Term – SECOND Half (7 Weeks)	<section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></section-header></section-header></section-header>	Programming Challenges Submitting drafts for oversight of teacher. Teacher not allowed to assist with individual projects but can comment generally to class on areas where there might be issues on eg file handling or a general understanding of the NEA project requirements.

When?	Knowledge	Assessment
SPRING Term – FIRST Half (6 Weeks)	<section-header>REVISING ALL aspects of the theory for this course: Systems Architecture How common characteristics of CPUs affect their performance: • clock speed • cache size • number of cores Suppose of embedded systems • purpose of embedded systems • examples of embedded systems systems Translators Characteristics and purpose of different levels of programming language, including low level languages The purpose of translators</section-header>	ProProfs Online Quizzes developed by GCS Computing Department Computer Systems QUIZ The CPU QUIZ Von Neumann Architecture QUIZ 04 Fetch-Decode-Execute Cycle QUIZ CPU Performance QUIZ Programming Languages QUIZ

Whe	n?	Knowledge	Assessment
F	s)	REVISING ALL aspects of the theory for this course: Memory Translators & Facilities	ProProfs Online Quizzes developed by GCS Computing Department Fetch-Decode-Execute Cycle QUIZ Von Neumann Architecture QUIZ
SECOND Half		The difference between RAM and ROM	The CPU QUIZ Computer Systems QUIZ
SPRING Term – S	(6 Weeks)	The purpose of ROM in a computer system	
SPRIN		The characteristics of an assembler , a compiler and an interpreter	

When?	Key Learning Objectives Key Questions	Assessment
SUMMER Term – FIRST Half (6 Weeks)	REVISING ALL aspects of the theory for this course: Importance of Computational Thinking Systems Architecture Primary Storage Secondary Storage Networks - Introduction Networks - Topologies & Protocols Networks - Layering Networks - Connections Networks - Security The Internet Systems Software Computational Thinking & Algorithms Programming Techniques Writing Reliable Programs Data Representation, Conversion & Arithmetic Translators & Programming Tools	ProProfs Online Quizzes developed by GCS Computing Department Memory QUIZ Secondary Storage QUIZ Computational Thinking QUIZ Data Types QUIZ