/Computing@Balcarras_



SUBJECT	YEAR	TERM
A-Level Computer Science (OCR)	12	3
UNIT		
Software Development		
INTENT		
PRIOR LEARNING (TOPIC) – GCSE Software		
Creating software is rarely a solo endeavour and part of being a developer is being able to work on larger projects and as part o not only looks at types of software in broad terms, but also soft	f a team. This unit	cification Points: s unit covers point 1 to 1.2.3

FUTURE LEARNING (TOPIC): Programming Project

IMPLEMENTATION IMPACT

Throughout the unit pupils will cover:

development strategies during this.

- The need for and uses of operating systems, including processor and memory management techniques.
- Types of software including licencing options.
- The stages of compilation.
- The use of linkers, libraries and loaders.
- Software development methodologies such as waterfall, agile, RAD and extreme.

and project management techniques. This is a very useful unit in terms of the programming project as pupils are expected to use some of these software

Assessment: Pupils will sit a 40 mark inlesson assessment at the end of the unit, the score from which will be translated into an A* to E style grading.

In addition to this, pupils will complete regular exam style questions both during lesson and as part of homework tasks.

HOW CAN PARENTS HELP AT HOME?

All course materials are available via Firefly. In the build-up to the assessment, parents can help by supporting their child's revision. This can include testing them using flash cards or simply getting them to explain topics to you.

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HELPFUL READING/FURTHER DISCUSSION READING/EXTRA-LEARNING CAREERS WIDER SKILLS There are an enormous number of online The skills / knowledge learnt in this Digital Literacy courses and tutorials to help pupils develop unit lead perfectly into a wide range Problem Solving of careers including software Resilience their computer science skills further. development and project Visit the Next Steps section of the Computing management. department's Firefly page for more details.

VOCABULARY

OS, Paging, Segmentation, ISR, Round Robin, MLFQ, FCFS, Distributed, Embedded, Multi-Tasking, Multi-User, Real-time, BIOS, Drivers, Virtual Machines, Utilities, Open Source, Closed Source, Translation, Interpreting, Compiling, Linker, Loader, Library, Lexical Analysis, AST.