

SUBJECT		YEAR	TERM
A-Level Computer Science (OCR)		13	1/2
UNIT			
Programming Project			
INTENT			
PRIOR LEARNING (TOPIC) – Programming & Software Development Units			
The programming project is a very exciting part of the course – it represents the first time many pupils will have developed a large-scale piece of software. What pupils create is largely down to them, so it is also an opportunity for pupils to explore areas of programming that really interest them. Pupils will not only produce the end solution to the problem they have identified, but also an extensive supporting document containing analysis, design, development and evaluation sections.			Specification Points: This unit covers points 3.1 to 3.4
FUTURE LEARNING (TOPIC): Post-18 Computer Science courses			
IMPLEMENTATION		IMPACT	
Throughout the unit pupils will cover: <ul style="list-style-type: none">Analysing a problem to identify requirements.Decomposing a problem and producing designs for each component part.Iteratively developing and testing a solution to the problem.Evaluating the overall success of the solution.		Assessment: The project accounts for 20% of the overall course. Pupils will be given a mark out of 70 upon completion. They will also receive formative feedback at regular intervals throughout development.	
HOW CAN PARENTS HELP AT HOME?			
Support documents can be found on the A-Level Computer Science page of Firefly. This includes guidance on each major section and a wide range of exemplar work. Encouraging your child to use these is a good starting point. It can also be useful to discuss their project with them and to act as a proofreader upon completing major sections.			
HELPFUL READING/FURTHER DISCUSSION			
READING/EXTRA-LEARNING There are an enormous number of online courses and tutorials to help pupils develop their computer science skills further. Visit the Next Steps section of the Computing department’s Firefly page for more details.	CAREERS The skills / knowledge learnt in this unit lead perfectly into a wide range of careers including software development and project management.	WIDER SKILLS Digital Literacy Time Management Problem Solving Resilience	
VOCABULARY			
Stakeholders, Problem Recognition, Success Criteria, Decomposition, Testing Plan, Validation, Iterative Development, Agile, Maintainability.			